



The Centre for
Biofield Sciences

Integrated Health

LifeWave Research Study

September – December 2009

World Peace Centre, MIT College, Pune

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ABSTRACT

LifeWave Plus products are based on the principles of homeopathy and activate the body's bio-energetic system. The IceWave patch is a non-trans dermal patch which gently stimulates acupuncture points to improve energy flow in the body to relieve pain and discomfort. Low levels of glutathione in the body have been shown to result in pain.^{1,2} The purpose of this study was to validate the efficacy of the IceWave patch and investigate the effectiveness of the Glutathione patch as a pain reliever and antioxidant by observing changes in the human biofield. Polycontrast Interference Photography (PIP), Gas Discharge Visualization (GDV) and Electro-Interstitial Scan (EIS) were the devices utilized before and after using Life wave Patches.

Results show that the Icewave patch has a profound effect on reducing pain in individuals. Icewave patch is an effective means of minimizing muscular spasm and pain. In addition to data analysis, positive changes in the biofield were witnessed after the use of the ice wave patch .After the application of the Glutathione patch, significant & considerable positive changes were seen in the Biofield as well as on the chakra level. Predominance of positive green and subtle pink with the subjective feeling of wellness.

INTRODUCTION

LifeWave patches are composed of organic materials recognized as safe by the FDA. Since acupuncture has been proven to alleviate pain, LifeWave patches utilize specific acupuncture points to reduce pain in subjects.³⁻⁷ The IceWave patch has already shown positive results, but this study will validate previous studies.⁸ Glutathione is an important antioxidant composed of the amino acids glutamate, cysteine, and glycine.⁹ Glutathione concentrations in the cell decrease in response to protein malnutrition, oxidative stress, and many pathological conditions.¹⁰ Lymphocyte activation and proliferation requires adequate glutathione concentrations; therefore it is critical in the immune response.^{11,12} For this reason, the efficacy of LifeWave patches utilizing glutathione is being investigated for pain reduction.

The Polycontrast Interference Photography (PIP) scan illustrates the subject's biofield using a spectrum of colors to represent the positive and negative energy throughout the body. Low/Negative energy areas are represented by red or orange colors, whereas, high/positive energy areas are represented by green, pink, or purple colors. The PIP scan will be used to help identify congested areas of red, negative energy where an Icewave or Glutathione patch should be placed on the subject.

Gas Discharge Visualization (GDV) illuminates the energy leaks which are a result of pain, inflammation, or disease. A healthy, positive state would be illustrated as vibrant and symmetrical, whereas a negative energy state would be seen as dull and asymmetrical. The GDV scan will be used to evaluate where energy leaks are located on the body and help determine Life wave patch placement.

Electro-Interstitial Scan (EIS) is a programmable electro-medical system scientifically proven and clinically validated. It is an efficient, non-invasive medical device that measures physiological parameters and produces detailed reports with 89% repeatable accuracy. The EIS measures conductivity of interstitial fluid between the cells. Its bio-impedance technology is similar to ECG and EEG, but rather than supplying information for only the brain or heart, the EIS measures electro physiological properties of 22 different volumes within the body and describes 69 different physiological parameters.

METHODS AND MATERIALS

Participants were randomly selected from solicitation from local newspaper advertisements and university notices. Approximately 150 subjects were reviewed to ensure they met the inclusion/exclusion criteria. In order to participate in this study, subjects were required to be between 18 and 70 years of age and could not participate if pregnant or nursing. Prior to initiating the study, the principal investigator verbally explained the study to the subject and fully answered any questions the subject may have had. The subject was then asked to read and sign the consent form. The subject was allowed to take a copy of the consent form home to discuss study participation with family, friends, and/or general physician. A patient number was then given to the subject to maintain confidentiality and facilitate randomization of the treatment group.

Fifty people were in the Icewave patch experimental group, 50 people participated in the Glutathione patch experimental group, and 20 people were in the control group as shown in **Table 1**. The control group wore similar looking patches for application, whereby the study could be performed as double blind. Neither participant, nor researcher knew whether they were given a study patch or a placebo. Research subjects were randomly assigned to one of the three groups. The subjects were then scanned using the PIP, GDV, and EIS. Subjects randomized to the Icewave group were asked to adhere the patches on the area of pain as determined by the three scans using the cross method as shown in the LifeWave handout "Patch Instructions" for 12 hours. Participants randomized to the Glutathione group were asked to place the patch on a specific acupuncture point located on the wrist of the right hand. The same scans were repeated after 24 hours.

Table 1: Total Number of Participants in Each Study Group

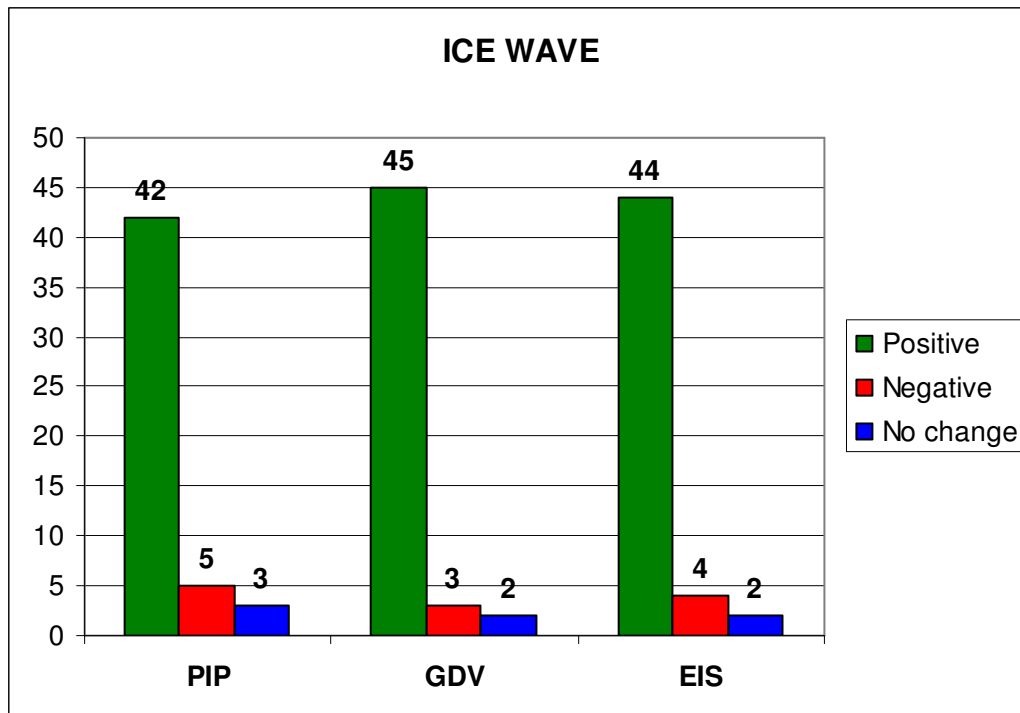
Ice Wave Experimental Group	50
Glutathione Experimental Group	50
Control group	20
Total subjects	120

RESULTS

The results from the IceWave patch investigation are summarized in **Table 2** and **Graph 1**. Almost 90% of subjects displayed a positive change after using the IceWave patch. Maximum changes were seen in the muscles of the hand, mid and lower back, and neck along with a significant positive change in the biofield and solar and naval chakras. A testimonial was also recorded from a male participant, age 66, who used the IceWave patch. He complained of severe pain in his lower back and tingling and numbness in his right leg. After using the IceWave patch, he informed us of a significant reduction in the pain in his back, and also the numbness and tingling in his leg was reduced.

Table 2: Parameter changes of 50 participants using the IceWave Patch

Parameters	Positive Change	Negative Change	No Change
PIP	42	5	3
GDV	45	3	2
EIS	44	4	2

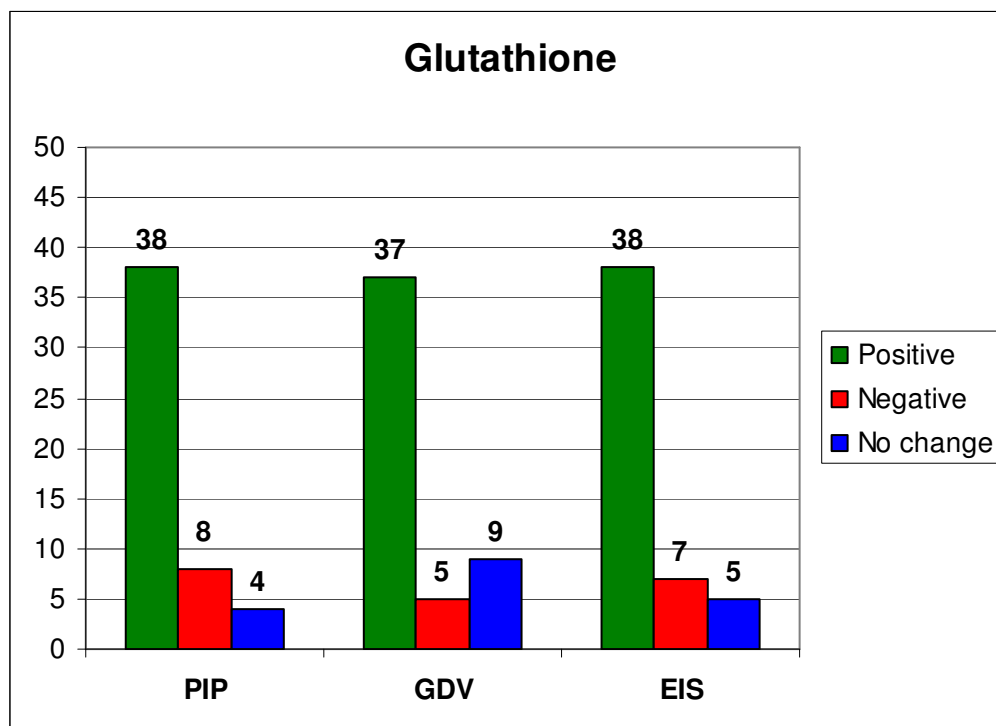


Graph 1: Energetic changes in subjects after wearing the IceWave patch for 12 hours

The results of the Glutathione patch study are summarized in **Table 3** and **Graph 2**. Approximately 80% of subjects have shown a positive change in the three energetic scans after wearing the Glutathione patch for 12 hours. During the use of Glutathione patch, calming frequencies like subtle pink and blue were seen dominantly in the field. Prolonged use was seen to increase the vibrancy of chakras. Predominance of positive green and subtle pink frequencies increased with the use of the Glutathione patch. Low energetic charkas are seen to open up. Low energy orange band and red congested energy was replaced by green or violet healing energy. Positive effects are also seen over lung fields in some of the cases. As testimonial for the Glutathione patch, a female subject, age 44, was feeling very lethargic with low energy at the end of the day and had no interest in doing office work. After the use of Glutathione patch, she claimed she felt more energetic and enthusiastic and had regained interest in doing household activities and office work.

Table 2: Parameter changes of 50 participants using the Glutathione patch

Parameters	Positive Change	Negative Change	No Change
PIP	38	8	4
GDV	37	5	9
EIS	38	7	5

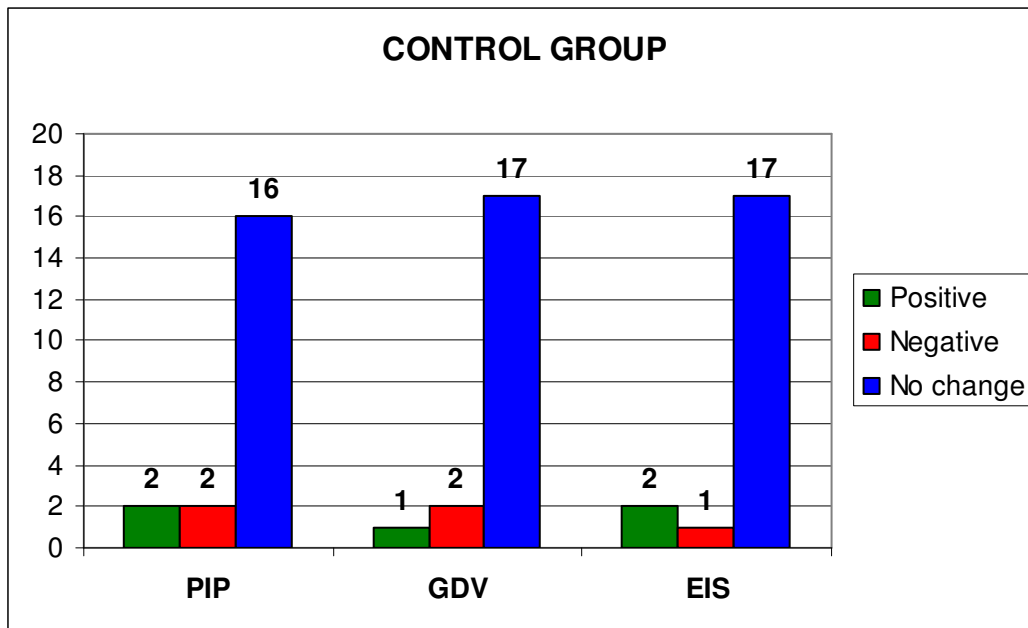


Graph 2: Energetic changes in subjects after wearing the Glutathione patch for 12 hours

The results for the control group are illustrated in **Table 4** and **Graph 3**. As seen below, between 80% and 85% of subjects showed no improvement and 5 - 10% showed a positive or negative change.

Table 4: Parameter changes for the 20 participants involved in the control group

Parameters	Positive Change	Negative Change	No Change
PIP	2	2	16
GDV	1	2	17
EIS	2	1	17



Graph 3: Energetic changes in subjects after wearing the placebo patch for 12 hours

CONCLUSION

Our results show that the IceWave patch has a profound effect on reducing pain in individuals. In addition to data analysis, positive changes in the biofield were witnessed after the use of the patch. From this research, it can conclude that the IceWave patch is an effective means of minimizing muscular spasm and pain. Maximum changes were seen in the muscles of the hand, neck and mid to lower back, along with a significant positive change in the biofield, specifically the solar and navel chakras.

During the use of Glutathione patch, a significant number of subjects showed an improvement in all three body scans. Further research with higher numbers of subjects, with multiple days of patch usage should be performed to better understand the possible benefits of using this particular patch. Long term effects after wearing the patch should also be considered when further investigation of the patch is performed.

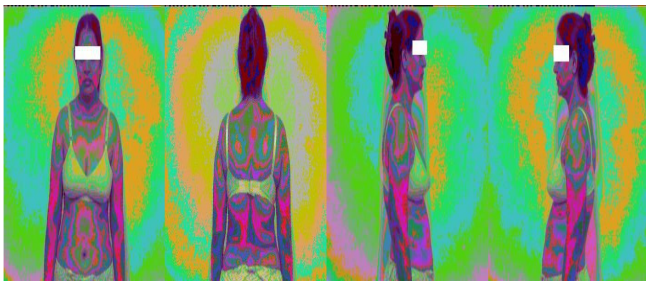
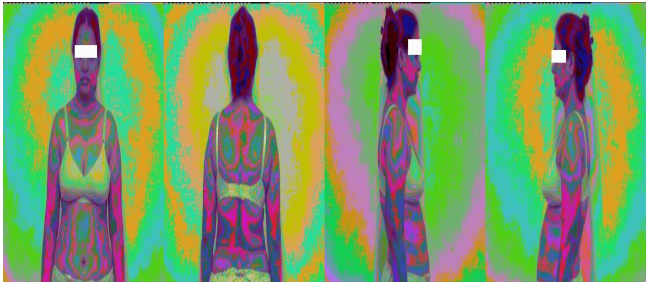
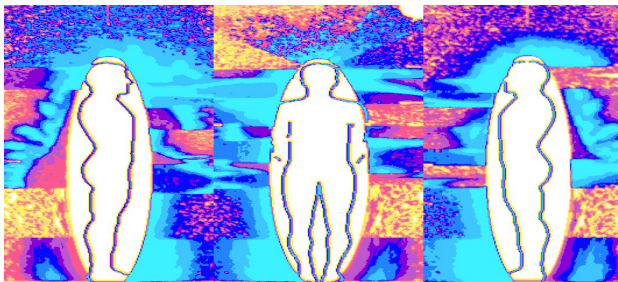
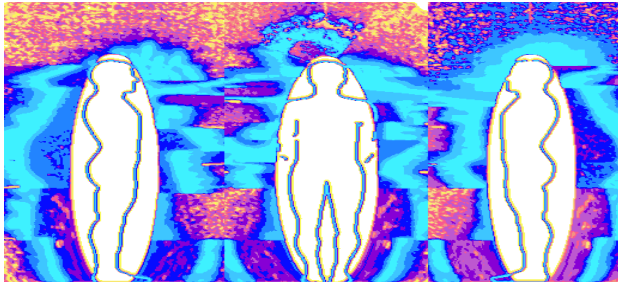
The control group was unaware that they were wearing a placebo patch. As expected, the majority of participants in the group showed no change in the PIP scan, GDV, and EIS. In the subjective reading, there was also no remarkable relief. Since no changes were observed in the control group; however, remarkable positive changes were seen in both experimental group, it can be concluded the both the IceWave and Glutathione patches produce beneficial energetic effects.



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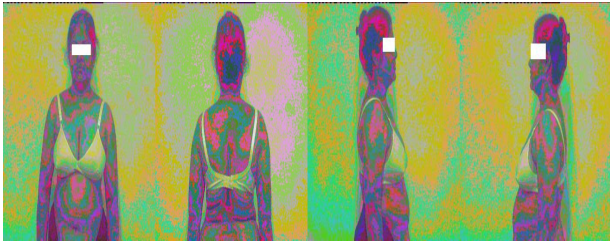
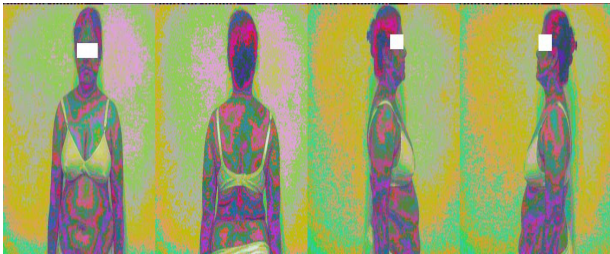
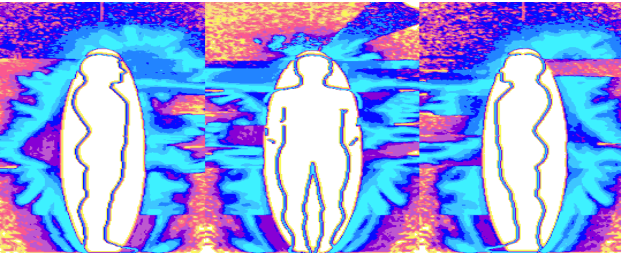
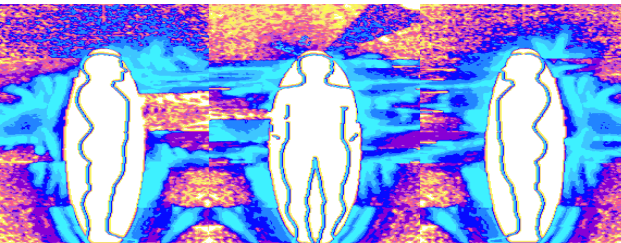
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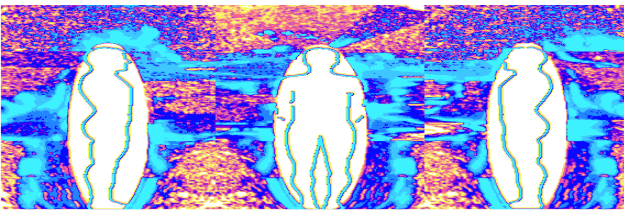
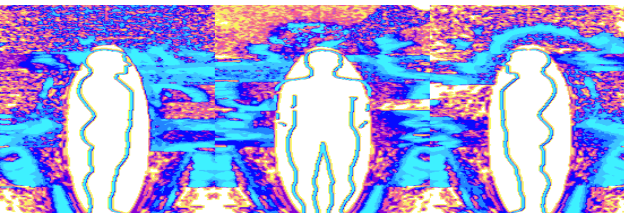
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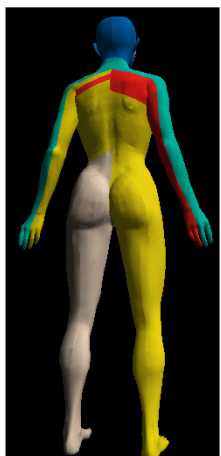

<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: The green coloured positive energy in the biofield has increased along with the blue coloured healing energy. Orange coloured low energy in the biofield (in left profile) has decreased and the green coloured positive energy and pink coloured subtle positive vibrations has increased. Red coloured low energy in the Solar plexus has decreased as Green coloured positive energy has replaced the congestion.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Energy leak at the level of lower back has reduced. Overall leaks have reduced. Redistribution of energy is seen with reappearance of energy at level of legs.</p>
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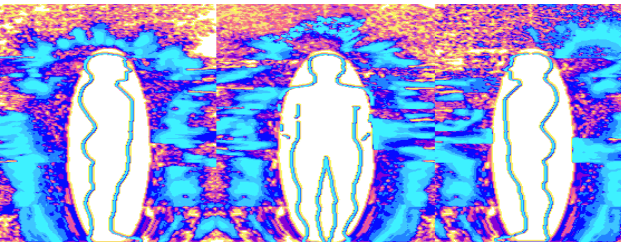
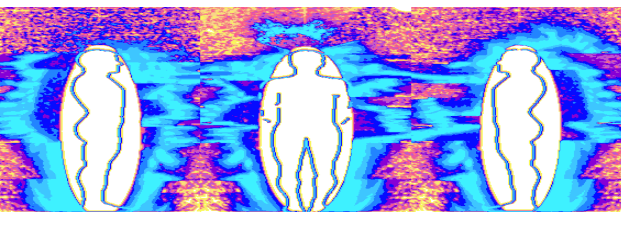
EIS	EIS
<p>Before:</p> 	<p>After:</p>  <p>Discomfort & pain is seen at the level of C1-C8 indicated by sea blue. low energy is seen in the Rt. hand (sea blue) in before scan .After the use of ice wave patch significant positive changes are seen.</p>



<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Pink coloured subtle positive vibrations have increased. Muscle spasm indicated by red colour has reduced. Red coloured congestion near Right shoulder has reduced.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Distortion of the aura has reduced. Energy leaks has reduced. Energy bulge near lower back has reduced.</p>
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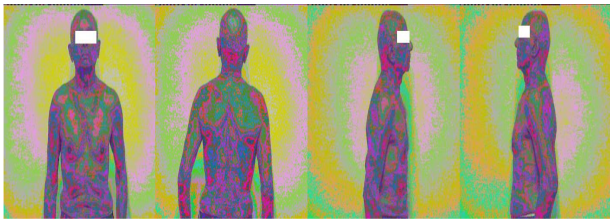
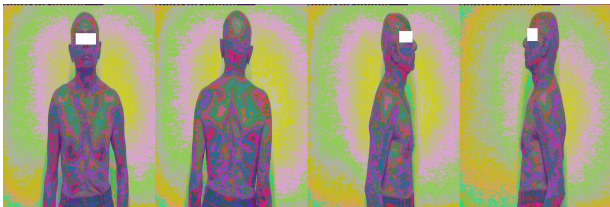
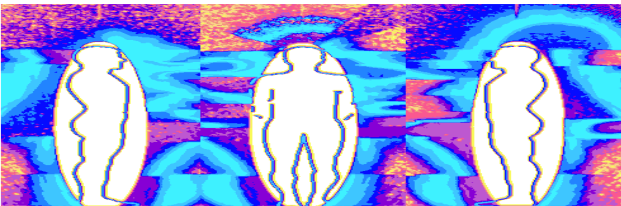
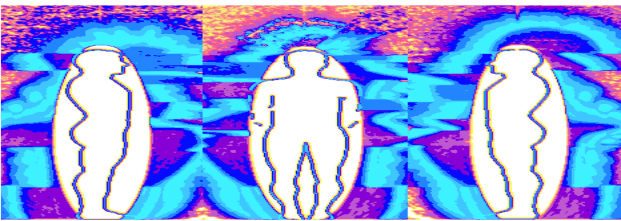
EIS	EIS
<p>Before:</p> 	<p>After:</p> 
<p>Here we see disorders of Somesthesia and particular distribution as far as the dermatomes are concerned. Dark blue color indicates a problem of significant intensity. Before scans show complaints in the right hand, arm, chest abdomen and back. In the after scans we see significant improvement. Improvement is seen in the hand, arm and pectoral area. Low intensity problems are seen in the chest, abdomen and back.</p>	

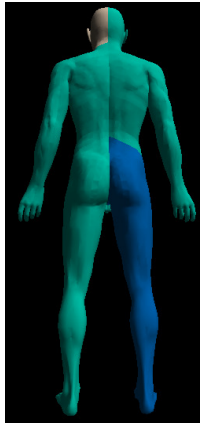

<u>PIP :</u>	<u>GDV :</u>
<p>Before:</p>  <p>After:</p> 	<p>Before:</p>  <p>After:</p> 
<p>Analysis: Appearance of healing violet in the biofield is a positive change. Congestion (red color) in the back has reduced. Rearranging of energy is seen in the lung fields. Overall after scan shows positive change.</p>	<p>Analysis: Minimal reappearance of energy is seen in the biofield. Biofield also appears to be much more continuous and vibrant in after scan.</p>

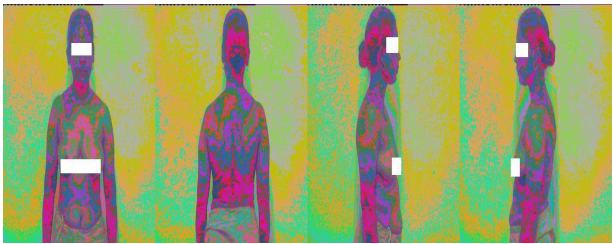
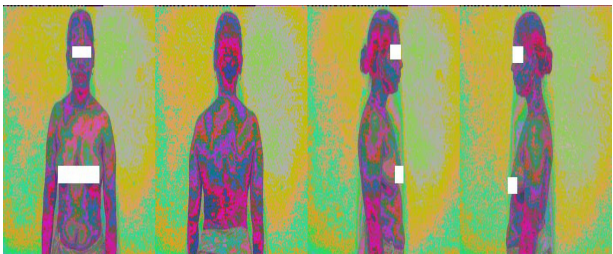
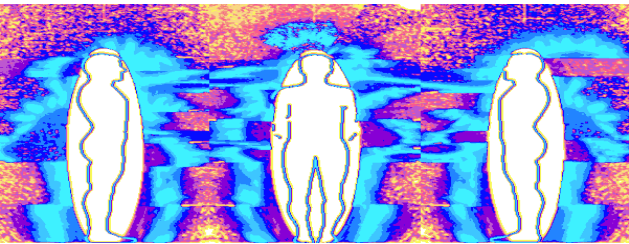
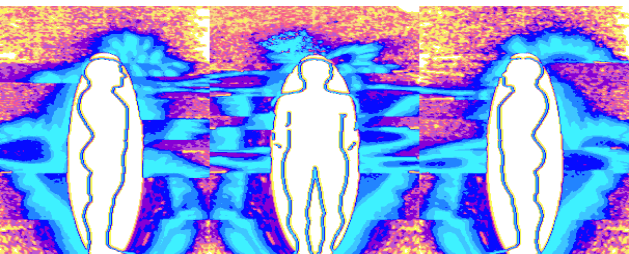
<u>EIS</u>	<u>EIS</u>
<p>Before:</p> 	<p>After:</p> 
<p>Here we see disorders of Somesthesia and particular distribution as far as the dermatomes are concerned. Dark blue color indicates a problem of significant intensity. Before scans show complaints in the right hand, arm, chest abdomen and back. In the after scans we see significant improvement. Improvement is seen in the hand, arm and pectoral area. Low intensity problems are seen in the chest, abdomen and back</p>	



<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Solar plexus is opening up by receiving green colored positive energy. Muscle spasm in the back has reduced and green colored positive energy have increased.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Energy emission from crown chakra has reduced. Overall distortion of the aura has reduced. The density of the aura increased.</p>
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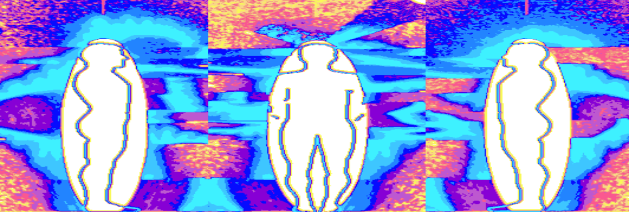
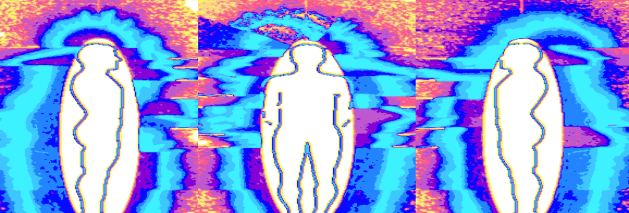
EIS	EIS
<p>Before:</p> 	<p>After:</p> 
<p>Yellow colour in the muscles of the back is because of increased neuronal excitability and increased lactic acid or anaerobic metabolism in that particular area. Sea green in both the extremities is because of decreased neuronal excitability. This relates to problems of somesthesia. Overall improvement is seen in the after scans.</p>	



<p>PIP : Before:</p>  <p>After:</p> 	<p>GDV : Before:</p>  <p>After:</p> 
<p>Analysis: Congestion in the brow chakra has reduced after the use of patch. Lung fields shows improvement as red color congestion has reduced & replaced by positive green. Muscle spasm in the neck has decreased significantly.</p>	<p>Rearranging of energy is seen. Emission of energy at the level of crown chakra has reduced.</p>

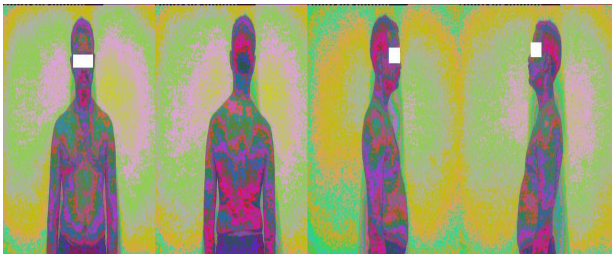

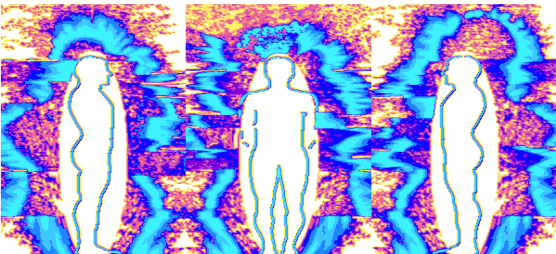
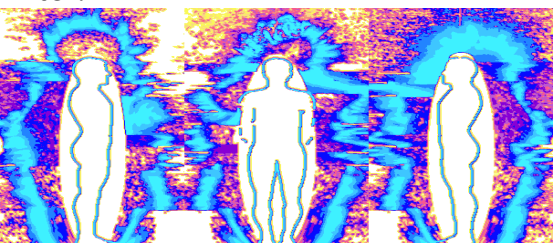
EIS	EIS
<p>Before:</p> 	<p>After:</p> 
<p>The before scan shows decreased neuronal excitability in the area distribution of the whole spine. The intensity is significant in the right leg. Overall improvement is seen in after scan. Right leg has shown a lot of improvement. C6-C8 and Thoracic spine has also shown a lot of improvement as far as the conductivities are concerned.</p>	



<u>PIP :</u>	<u>GDV :</u>
<p>Before:</p>  <p>After:</p> 	<p>Before:</p>  <p>After:</p> 
<p>Analysis: The general energy field in after scan shows denser green, particularly in right profile. The left lung field and heart chakra shows a negative change. Congested low red energy has increased in after scans. Back shows slight improvement.</p>	<p>Analysis: Energy bugle at level of back has reduced. Leaks at level of solar has reduced. Biofield has become more vibrant, symmetrical and aligned in after scan.</p>



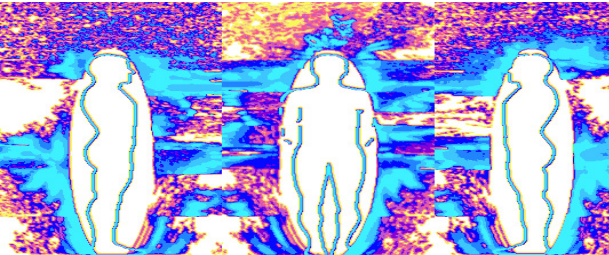
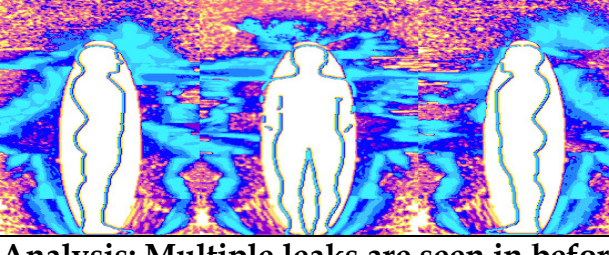
<u>EIS</u>	<u>EIS</u>
<p>Before:</p> 	<p>After:</p> 
<p>The before scan shows increased neuronal excitability in the area distribution of C8, T1-T3. Red color in pectoral muscles and muscles of the back and Flexor muscles of the right indicate area of pain and anaerobic metabolism. Lactic acid is seen to have increased. Similar findings though of less intensity are seen in left hand and back on the right side. Overall improvement is seen. Right hand shows significant improvement so does the left hand and back.</p>	



<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Red coloured congestion near solar plexus has increased. Red coloured congestion near lower back has increase.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Energy bulge near lower back has reduced. Energy leak from left shoulder has reduced. Overall energy leaks has reduced.</p>
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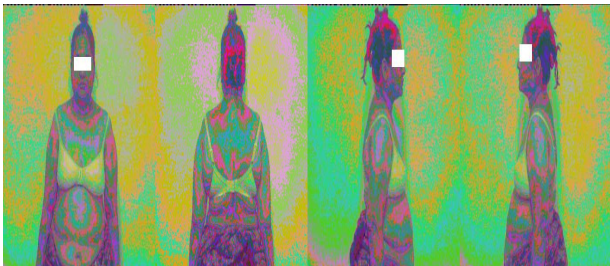

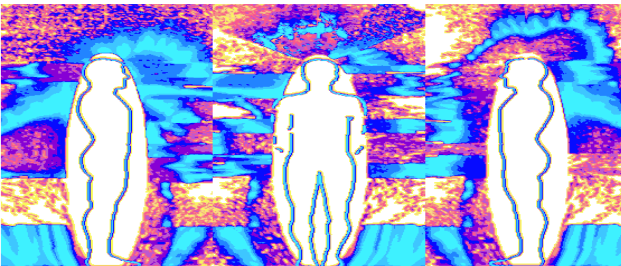
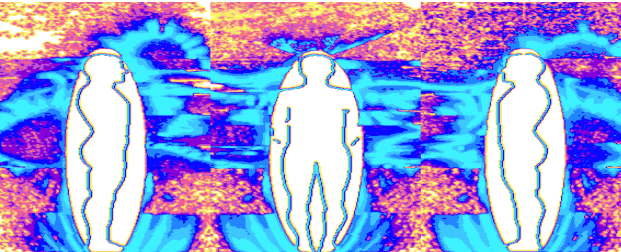
EIS	EIS
<p>Before:</p> 	<p>After:</p> 
<p>Before scan shows reduced neuronal excitability and somatic pain discomfort in the back, left hand and neck. The actual dermatomes involved are L2- L5, S1- S5 and marginal affection of T1- T12. The after scans show improvement in L2- L5. The neuronal excitability being normal in this particular distribution. Improvement being in the form of reduction in sensations on tingling and numbness in the legs.</p>	



<u>PIP :</u>	<u>GDV :</u>
<p>Before:</p>  <p>After:</p> 	<p>Before:</p>  <p>After:</p> 
<p>Analysis: Increase in the subtle pink coloured positive energy in the after scan is a positive shift. Red colour congestion in the back has reduced after the application of patch. Congestion indicated by red colour in the solar plexus has decreased.</p>	<p>Analysis: Distortion of aura has reduced. Distortion of crown chakra has reduced. Energy leak from lower part of legs has reduced. The continuity and the density of the aura has increased.</p>

<u>EIS</u>	<u>EIS</u>
<p>Before:</p> 	<p>After:</p> 
<p>Significant improvement can be seen in this particular person. Before scan shows increased neuronal excitability in right lower limb. It relates to painful muscle zones in L3,L4 and Sacral dermatomes. Decreased neuronal excitability is seen in C2-8 and therefore disorders of somesthesia are seen in right upper limb. Both the things show remarkable improvement in after scans</p>	

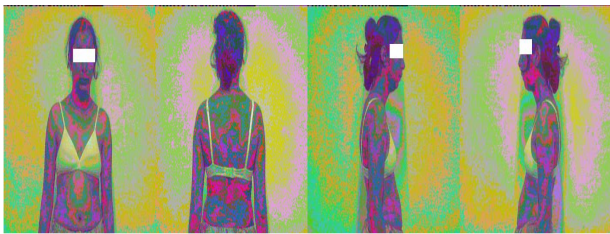
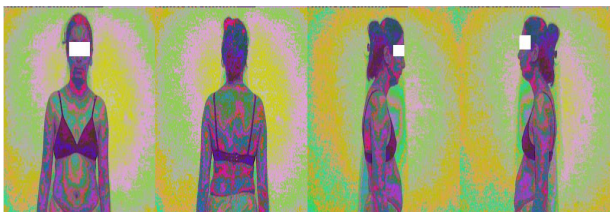
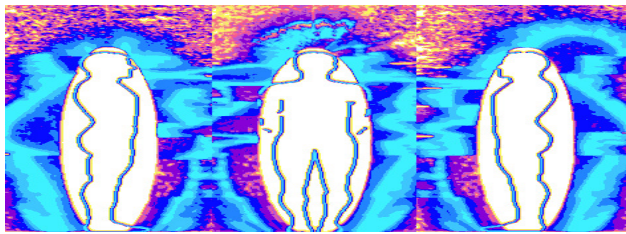
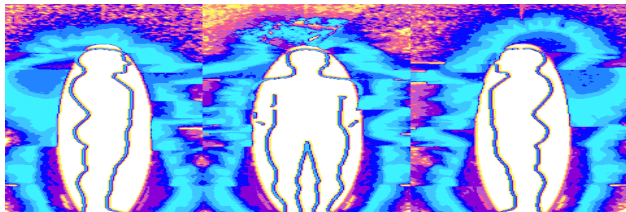
<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Biofield is dominant of yellow in after scan, this is a positive sign. Appearance of golden yellow after therapeutic intervention is a positive change. Congestion in the lower back also show reduction in comparative analysis.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Analysis: Multiple leaks are seen in before scan which has reduced after application of patch. Biofield appears to be much more continuous in after scan.</p>
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EIS	EIS
<p>Before:</p> 	<p>After:</p>  <p>No remarkable changes are see.</p>

<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Golden yellow coloured low energy in the biofield has increased. Orange coloured low energy in the biofield has reduced. Red coloured congestion in the Solar plexus has reduced and chakra is opening by receiving green coloured positive energy.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Energy leak from lower part of legs has reduced. Energy envelop is thickening up. Energy leak from lower back has reduced. Distortion of aura has reduced. Energy emission from crown chakra has reduced.</p>
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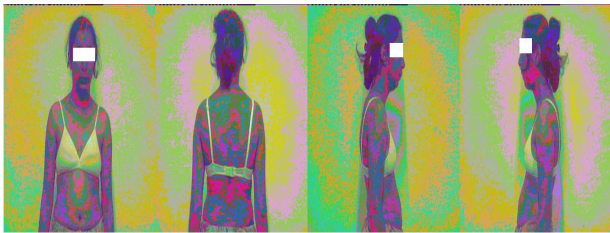

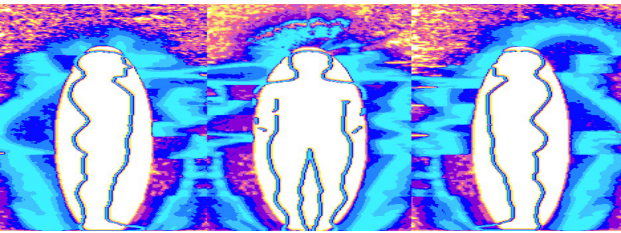
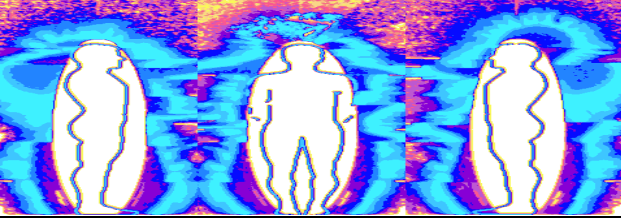
EIS	EIS
<p>Before:</p> 	<p>After:</p>  <p>Analysis: The after scans after Icewave shows negative changes as neuronal excitability was reduced in the left back in dermatomes T7 to L1 approx. This means somesthesia in that area increased after the use of Icewave patch.</p>

GLUTATHIONE CASE STUDY 10

<p>PIP : Before:</p>  <p>After:</p> 	<p>GDV : Before:</p>  <p>After:</p> 
<p>Analysis: The after scan shows reduction in low energy orange band to positive green in the Lt. profile. This change after any therapeutic intervention is a very positive change. Red congested energy is seen to have reduced on the solar chakra. Red congestion seen in the lower back has decreased after the use of glutathione patch.</p>	<p>The density and vibrancy of the aura has increased with the decrease in the emission of energy. Energy bulge at the level of lower back has reduced.</p>



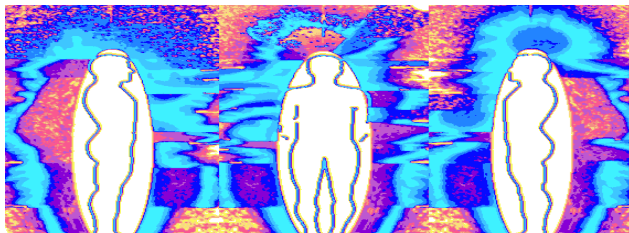
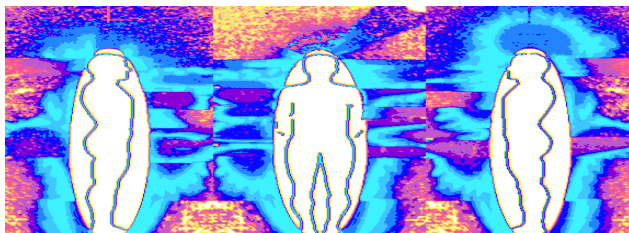
EIS

Oxidative stress indicators	Norms	BeforeValue	AfterValue
Malondialdehyde MDA	2.62-6.66	7.90	5.00
Super oxide dismutase soD2	56.00-71.00	43.00	60.00
Glutathione reductase	0.66-0.94	0.40	0.75
<p>Analysis:-Considerable positive changes are seen as there is marked reduction in the MDA values & considerable increase in the SoD2, glutathione reductase. It indicates reduction in the oxidative stress.</p>			

<p>PIP : Before:</p>  <p>After:</p> 	<p>GDV : Before:</p>  <p>After:</p> 
<p>Analysis: The after scan shows reduction in low energy orange band to positive green in the Lt. profile. This change after any therapeutic intervention is a very positive change. Red congested energy is seen to have reduced on the solar chakra. Red congestion seen in the lower back has decreased after the use of glutathione patch.</p>	<p>The density and vibrancy of the aura has increased with the decrease in the emission of energy. Energy bulge at the level of lower back has reduced.</p>


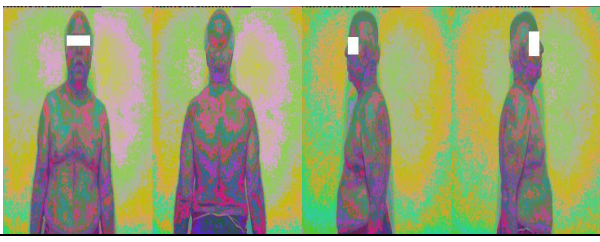
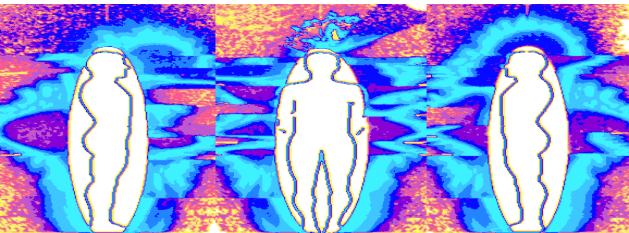
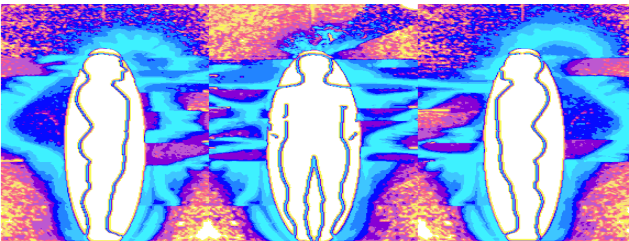
EIS

Oxidative stress indicators	Norms	BeforeValue	AfterValue
Malondialdehyde MDA	2.62-6.66	7.90	5.00
Super oxide dismutase soD2	56.00-71.00	43.00	60.00
Glutathione reductase	0.66-0.94	0.40	0.75
<p>Analysis:-Considerable positive changes are seen as there is marked reduction in the MDA values & considerable increase in the SoD2, glutathione reductase. It indicates reduction in the oxidative stress.</p>			

<p>PIP : Before:</p>  <p>After:</p> 	<p>GDV : Before:</p>  <p>After:</p> 
<p>Analysis: Increase of subtle pink in the biofield after the use of ice wave patch is a positive change. Muscle spasm in the back has reduced in after scan but the congestion in the neck shows no change. Red congestion in the lung & colon has decreased .There is increase in the congestion of solar plexus.</p>	<p>Energy bulge near lower back has reduced. Leak near left shoulder has reduced. Density of the aura has increased. Overall distortion of the aura has reduced.</p>



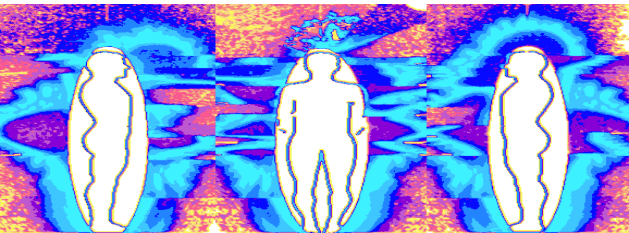
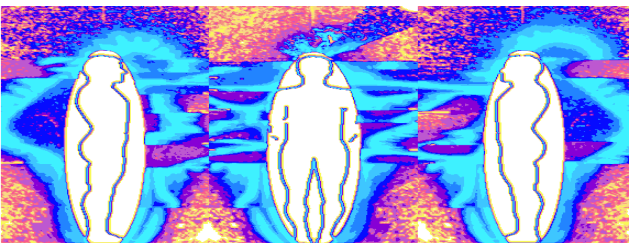
EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MDA	2.62-6.66	9	7.90
Super oxide dismutase soD2	56.00-71.00	30	43
Glutathione reductase	0.66-0.94	0.20	0.40
Analysis:- Positive changes are seen. Oxidative stress is reduced in after scan as MDA has decreased and soD2 and Glutathione reductase has increased.			

<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: General biofield shows increase in the subtle pink which is a positive change. Congestion in the back has reduced after ice wave patch application. Rearranging of energy is seen in the lung fields.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Overall distortion of the aura has reduced. Rearranging of energy is seen.</p>
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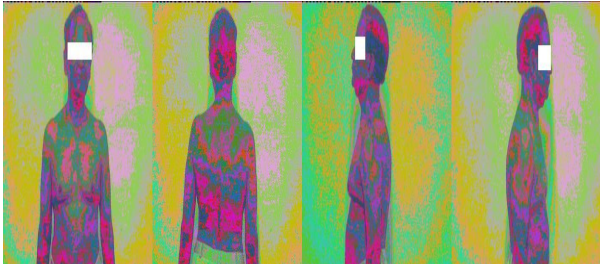
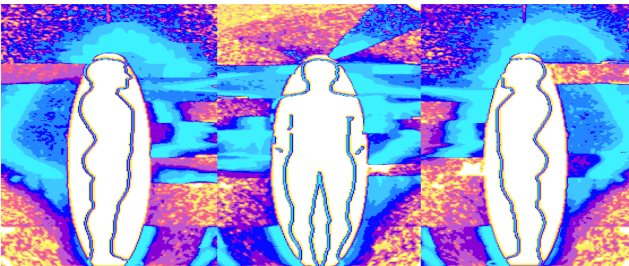
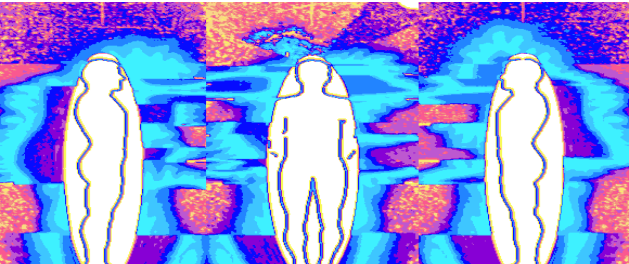
EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MDA	2.62-6.66	7.90	2.58
Super oxide dismutase soD2	56.00-71.00	43.00	73.00
Glutathione reductase	0.66-0.94	0.40	0.94
Analysis:- Considerable positive changes are seen in after scan. Remarkable decrease in the MDA levels and increase in soD2 and Glutathione reductase.			

<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: General biofield shows increase in the subtle pink which is a positive change. Congestion in the back has reduced after ice wave patch application. Rearranging of energy is seen in the lung fields.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Overall distortion of the aura has reduced. Rearranging of energy is seen.</p>
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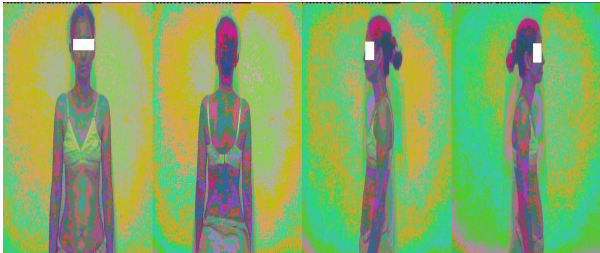
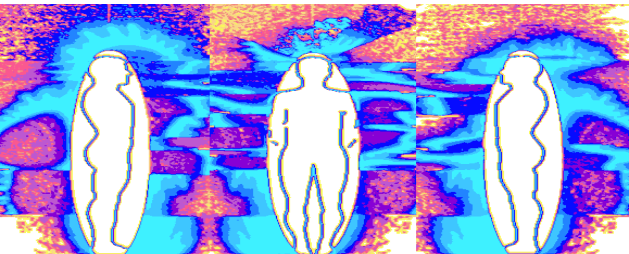
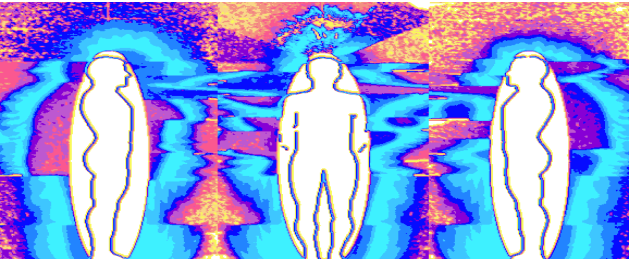
EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MDA	2.62-6.66	7.90	2.58
Super oxide dismutase soD2	56.00-71.00	43.00	73.00
Glutathione reductase	0.66-0.94	0.40	0.94
Analysis:- Considerable positive changes are seen in after scan. Remarkable decrease in the MDA levels and increase in soD2 and Glutathione reductase.			

<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Definite increase in pink in the Biofield is seen which is a positive shift. However congestion in lower abdomen and lung fields has increased. Mixed changes are seen in comparative analysis of two scans.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Analysis: Biofield has become much more symmetrical and balanced. Leak at level of crown chakra has reduced. Energy bulge from back has also reduced after use of patch.</p>
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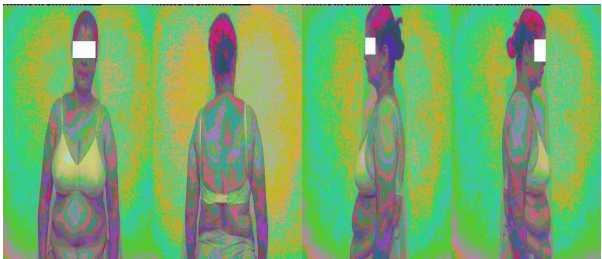
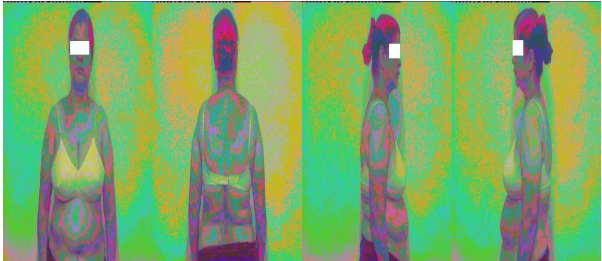
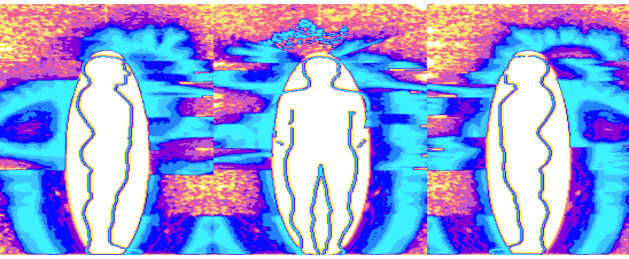
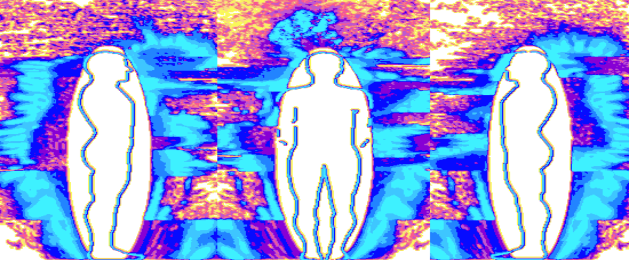
EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MDA	2.62-6.66	8.50	7.90
Super oxide dismutase soD2	56.00-71.00	37.00	43.00
Glutathione reductase	0.66-0.94	0.30	0.40
Analysis:-Reduction in the MDA in after scan is a positive shift. Increase in the SoD2 and Glutathione reductase shows reduction in the oxidative stress.			

<p>PIP : Before:</p>  <p>After:</p>  <p>Analysis: Red congestion seen in the solar plexus has reduced after ice wave patch treatment. Muscle spasm in the back has significantly reduced, it is also correlating with clinical observation.</p>	<p>GDV : Before:</p>  <p>After:</p>  <p>Energy leaks from neck, Right shoulder and legs have reduced. Density of the aura has increased.</p>
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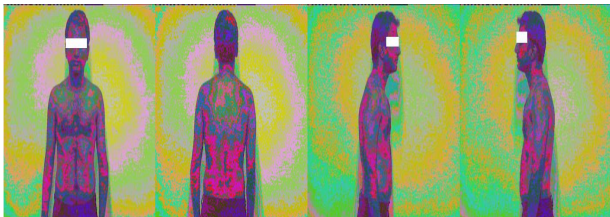
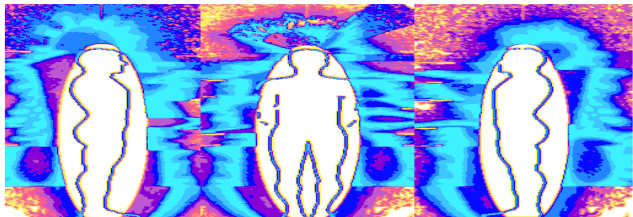
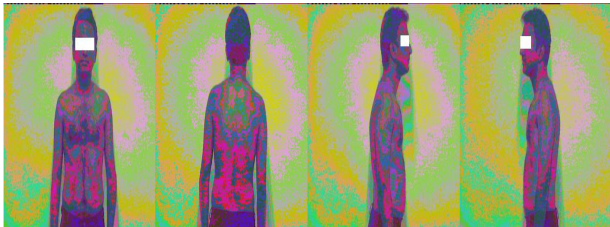
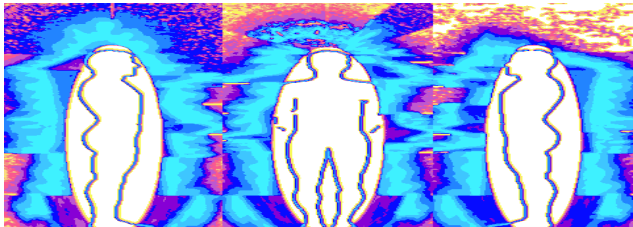
EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MDA	2.62-6.66	4.64	2.58
Super oxide dismutase soD2	56.00-71.00	63.50	73
Glutathione reductase	0.66-0.94	0.80	0.94
Analysis:- Positive changes are seen in after scan as there is decrease in the MDA values and increase in the SoD2 and Glutathione reductase.			

<p>PIP : Before:</p>  <p>After:</p> 	<p>GDV : Before:</p>  <p>After:</p> 
<p>Analysis: General biofield shows increase in the density of Orangecoloured low energy with the decrease in the green coloured positive energy which is a negative change. Red congestion seen in the colon has increased. Muscle spasm seen in the Rt. Hand has increased.</p>	<p>Distortion of aura has increased. Energy leak from neck and back has minimally increased.</p>

EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MAD	2.62-6.66	2.60	7.90
Super oxide dismutase soD2	56.00-71.00	72.00	43.00
Glutathione reductase	0.66-0.94	0.94	0.40
Analysis:- Increase in the MDA values and decrease in the soD2 indicates increase in the oxidative stress which is a negative sign.			

PIP : Before: 	GDV : Before: 
After: 	After: 
Analysis: No remarkable changes are seen in the after scan.	No significant changes are seen.

EIS

Oxidative stress indicators	Norms	Before Value	After Value
Malondialdehyde MDA	2.62-6.66	6.66	6.66
Super oxide dismutase soD2	56.00-71.00	56.00	56.00
Glutathione reductase	0.66-0.94	0.66	0.66
Analysis:- No remarkable changes are seen.			