

THE CENTRE FOR BIOFIELD SCIENCES



Validation of the efficacy of Students Memory Enhancer Mat using non invasive technologies like Biofield Viewer and Electro Photonic Imaging.

PRINCIPLE INVESTIGATOR : Dr. Ravi Prayag.

RESEARCH COORDINATOR : Dr. Bhagyashree Nilkanth

RESEARCH ASSISTANTS : Ms. Adesshri Halgekar
Mr. Kedar Khatmode

STUDY TITLE : Experimental Study to validate the effects of Students Memory Enhancer Mat on Human Bio Energy field.

STUDY OBJECTIVE : To evaluate the effects of Students Memory Enhancer Mat on Human Bio Energy field.

TIME PERIOD OF THE STUDY : December 2013

PRIMARY DATA COLLECTION : Centre for Biofield Sciences
124, World Peace Centre
Maeer's Maharashtra Institute of Technology
Pune, India

CONTACT INFORMATION : The Centre for Biofield Sciences
Address: World Peace Centre MIT College
Paud Road, Kothrud, Pune, India 411 038
Phone: +91 (0) 20 2545 8748
Email: cbspune@biofieldsciences.com
Website: www.biofieldsciences.com

Table of Content

Title	Page No.
EXECUTIVE SUMMARY	4
INTRODUCTION	5-6
AIM	7
MATERIALS & METHODOLOGY	7
OBSERVATION	7
RESULTS & DISCUSSION	8 - 12
CONCLUSION	13
LIMITATIONS	13
ACKNOWLEDGEMENT	13
REFERENCES	14
APPENDIX A	15-19
APPENDIX B	20-39
APPENDIX C	40 - 59
DISCLAIMER	60

EXECUTIVE SUMMARY

This is an experimental study for a Mat called Students Memory Enhancer Mat manufactured by a company called PortoWorld, Chennai, India. This study is paid for by Porto World Company and the results seen on participant using different non invasive devices.

The experimental study was carried out on 20 participants who were randomly assigned in experimental group. The data was analyzed by leading experts and practicing doctors. Before and after scans were compared after using Students Memory Enhancer Mat and after compiling the data, statistical analysis was carried out; statistically significant results were noticed in Biofield Viewer and Electro Photonic Imaging.

INTRODUCTION

ABOUT STUDENT ENERGY ENHANCER MAT

Student Energy Enhancer Mat is useful for students. Sitting over this STUDENTS MEMORY ENHANCER MAT while reading or learning, helps the student with Optimum Memory Retention and Recall Abilities by taking them to Alpha State of Mind.

BIOFIELD BACKGROUND

Physiology of the human biofield, which was first investigated by the Rishis and written in the ancient Vedic texts, the Patanji Yoga Shastra and the Yoga Vashistha. These texts describe the Nadi system, which is closely correlated to the meridian system of Traditional Oriental Medicine. Energetic vortices along the midline of the body are referred to as chakras from the Sanskrit word for wheel and correspond to the torsion field produced by the repeated firing of nerves in the nerve plexus. Each chakra is linked to a physiological endocrine gland via the nerve plexus and directly affects the gland with which it is connected, thus affecting the hormones secreted by each, as displayed in Table 1. A specific wavelength is also associated with each chakra, which corresponds with the colors of the rainbow. The frequency of each chakra increases from base to crown chakra, and from red to violet on the electromagnetic spectrum.¹

Table 1

Colors, gland and organs associated with each energy centre

Chakra/ Energy Centre	Color	Organs	Endocrine Gland
Crown	Violet	Brain	Pineal
Brow	Indigo	Brain	Pituitary

BIOFIELD VIEWER

BV is a light analysis technology that requires the human body to be exposed to a full spectrum lighting environment. The patterns of absorption or reflection of light from the body are then analyzed. Typically it is understood that body will absorb more light (i.e. reflect less) in problem areas, in comparison to the rest of the participant's body. The BV software measures the absorption and reflection of light on the skin's surface and surroundings then displays a composite image of the accentuated interference gradations on the screen^[1,4]. For this study the BV scan were used to help identify congested areas of red as low energy and green and blue as positive energy.

ELECTRO PHOTONIC IMAGING

Gas Discharge Visualization (GDV), also known as Electro-Photon Imaging (EPI), is an advanced form of Kirlian photography developed by Dr. Konstantin Korotkov. An electric impulse stimulates a biological subject and generates a response of the subject in the form of photon & electron emission. The glow of the photon radiation owing to the gas discharge generated in electromagnetic field is transformed by optical and charge couple device systems into a computer file. After participants place each finger tip on a quartz plate, image displaying the photons emissions are analyzed. For this study, increase in the area and symmetry of the aura were analyzed for balance and vibrancy.

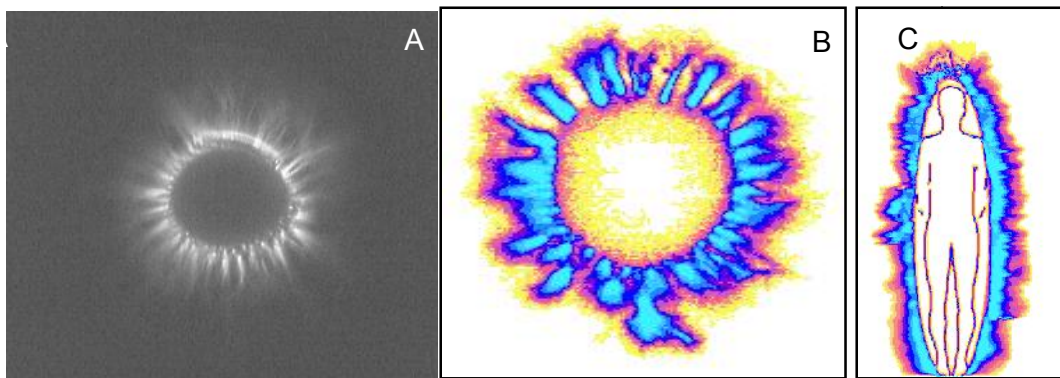


Figure 1: Example of EPI: (A) photonic emissions captured from a finger tip (B) photonic emission interpretation by EPI software (C) aura analysis based on photonic discharge and the Korean Su Jok meridian system.

AIM OF THE STUDY

The aim of this study was to assess the changes that take place in Human Biofield after the use of Student's Memory Enhancer Mat.

MATERIALS AND METHODOLOGY

Laboratory Set-Up

The Centre for Biofield Sciences uses Clean Sweep®, a product developed and studied by Professor Joie Jones at the University of California at Irvine which helps reduce the potential effects of electromagnetic interference from computers, wireless internet, electrical wiring, etc. This procedure is necessary when studying subtle energy of the human body due to the sensitivity of the assessment process and possibility of interference.

Twenty (20) student Participants were selected to take part in the study. Inclusion criteria for participation in this study were individuals in between 16-25 years of age. Each participant was given a randomly assigned identification number to maintain confidentiality of their personal information. Participants were informed of the nature of the study and all questions regarding the study has been explained in detail. The participants were given a copy of the informed consent form and were given 48 hours to make an educated decision about whether they would like to participate or not. Participants who signed an informed consent form were taken in the study.

The 1st set of scan (base line scan) was taken using Biofield Viewer & E lector Photonic Imaging. Then participants were asked to sit on the Students Memory Enhancer Mat for 20 minutes. The 2nd set of scan (After scan) was taken after using the Students Memory Enhancer Mat. The results were given to an independent Statistician for analysis.

Drop-outs:

No individual discontinued the study.

OBSERVATION

The analysis of BV and E.P.I recordings of the Experimental group revealed that there were significant changes in all parameters of BV and E.P.I. devices.

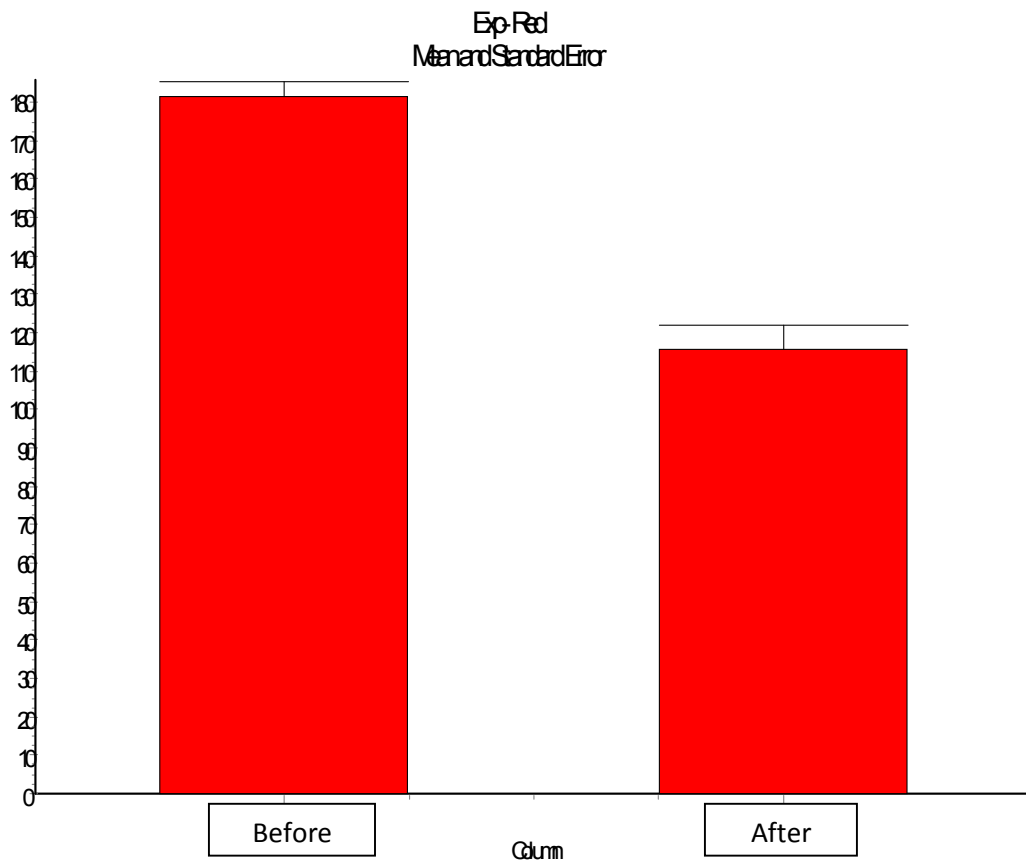
RESULTS & DISCUSSION (Qualitative & Quantitative Analysis)

Table No. 1: Statistical Analysis of BV Experimental group

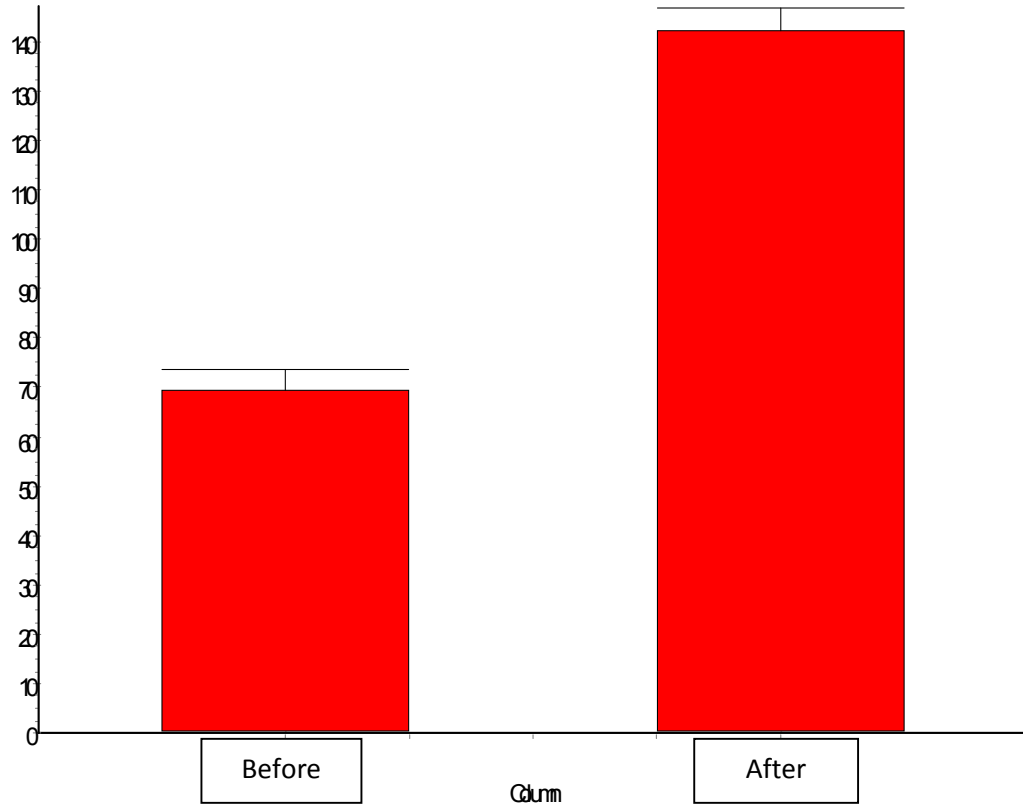
Parameters		Before	After
BV	Red	181.70 ± 3.64	115.55 ± 6.22***
	Green	69.60 ± 4.03	142.35 ± 4.54***
	Blue	83.45 ± 7.47	111.60 ± 7.71*

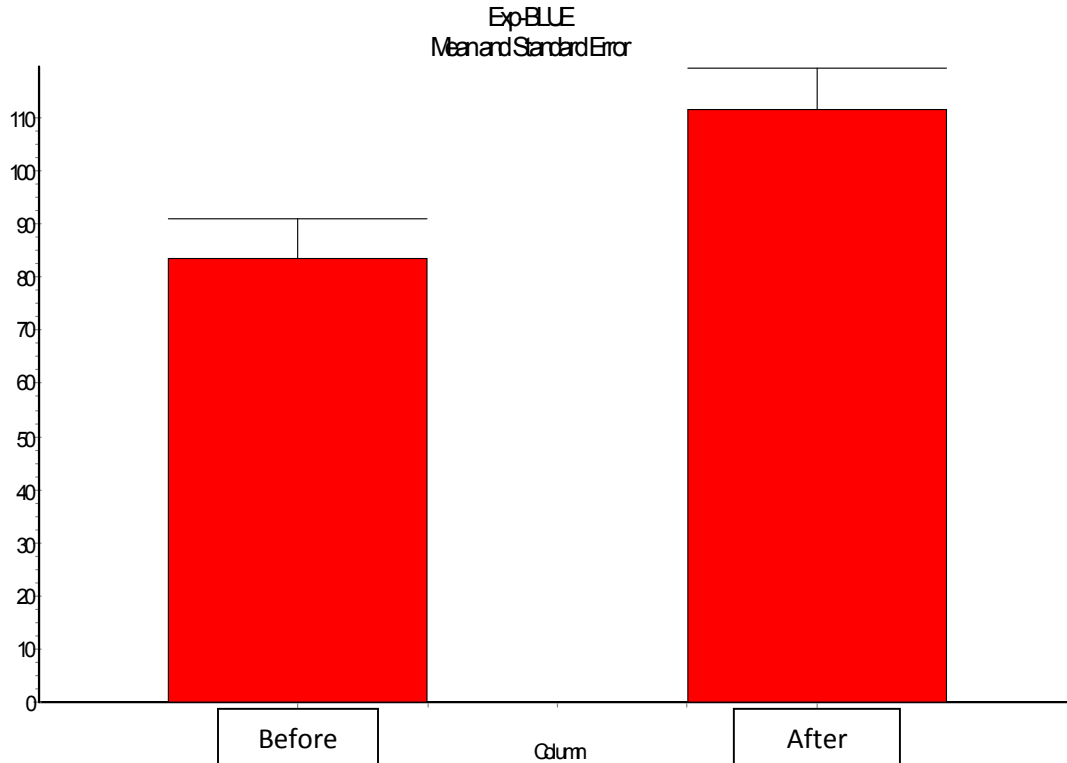
Where: Mean ± SE [ns - Not significant, *- Significant (p<0.05), ** -Very significant (p<0.01) ***-Extremely significant (P< 0.0001)]

GRAPHS



EpGREEN
Mean and Standard Error





Discussion for BV results (Quantitative Analysis)

The results (Table No.1) have shown extremely significant changes ($p < 0.0001$) in the experimental study of Students Memory Enhancer Mat. These statistically significant quantifiable results have been observed as extremely significant changes as in reduction in red pixels that are associated with low energy. Correspondingly high amounts of green pixels that relate with healing energies and blue that relate with calming frequencies can be seen.

Only the Crown and Brow Chakras were taken into consideration as they are associated with brain activities.

Comparative analysis (Table No.1) has been done as before scan i.e. baseline scan against its after scan (same group). It has been observed that extremely significant changes ($p < 0.0001$) can be seen in Red and Green whereas in Blue pixel significant changes ($p < 0.05$) can be seen. It means that extremely significant improvement in green-blue and reduction in red pixels has been observed in experimental group as compared to its after scan.

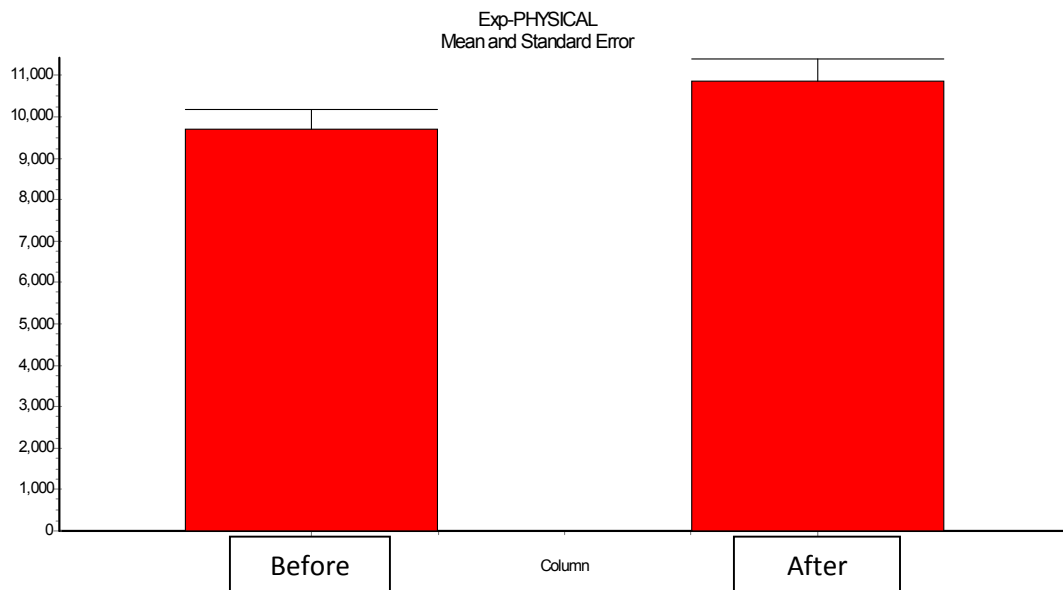
The change in the observed patterns of Bioenergy fields of the clients can be appreciated in the Appendix B.

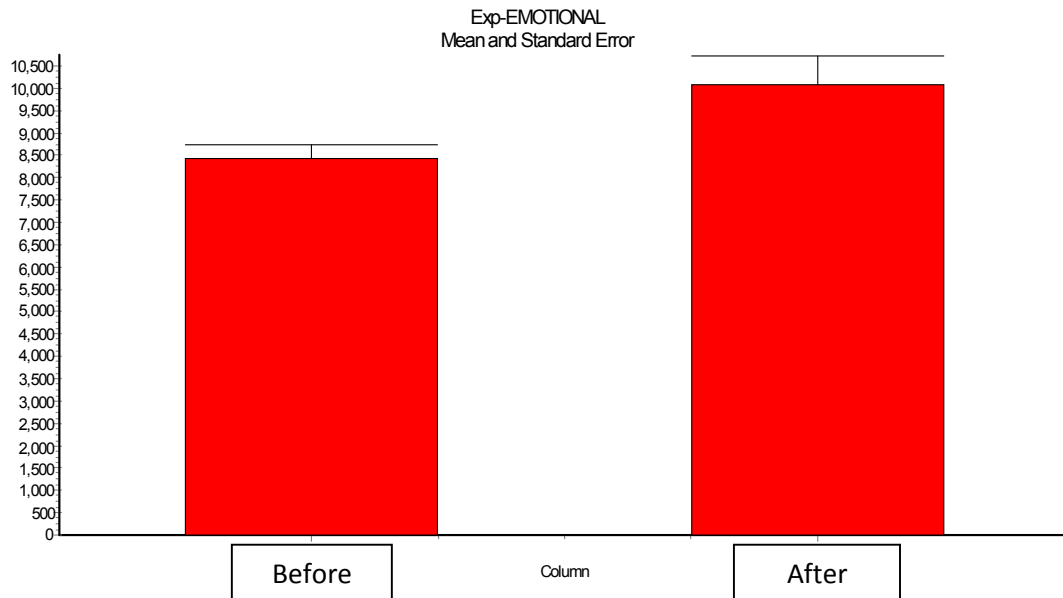
Table No. 2: Statistical Analysis of EPI Experimental group

Parameters		BEFORE	AFTER
EPI	Physical	9699.5 ± 490.25	10864 ± 534.19 *
	Emotional	8420.3 ± 327.44	10074 ± 648.15 *

Where: Mean ± SE [ns - Not significant, *- Significant (p<0.05), **-Very significant (p<0.01) ***-Extremely significant (P< 0.0001)]

GRAPHS





Discussion for Electro Photonic Imaging (Quantitative Analysis)

Statistically significant changes (Table No. 2) have been observed in the after scans as compared with the before scans of the group. Significant ($p < 0.05$) changes can be seen in the front projection area parameter for after using Student Memory Enhancer Mat in EPI. This can be seen in the results of both with and without filter. Therefore the changes are seen in both psycho emotional as well as physical sphere.

All the above results that are seen have been corroborated in the qualitative analysis and are appreciated in Appendix C.

DISCUSSION (Qualitative analysis)

The BV was used to measure energy level of the biofield, crown and brow chakra which has shown significant positive change in the experimental group, therefore it shows that Student Memory Enhancer Mat has positive effect in balancing the biofield.

In the E.P.I. scans, on emotional as well as in physical plane, significant changes were found in crown and brow chakra level

CONCLUSION

It is concluded that the Students Memory Enhancer Mat showed extremely significant effects in improving the balance and vibrancy of the human biofield at considered areas. Also it has shown significant effects in reducing stress level which will help the student in increasing concentration, restoring and balancing the human biofield.

LIMITATIONS

As the sample size is not very large, this limits the generalization of the study.

ACKNOWLEDGEMENT

Investigators take this opportunity to thank Mr. Sudhir Neurgaonkar (Research Administrator) for arranging the participants. We are also thankful to Ms. Adeshri Halgekar for data compilation and statistical analysis, Mr. Kedar Khatmode (Admin Assistant) for recording and data collection for their valuable back office in each stage of the study.

REFERENCES

1. Bagavathiappan S, Saravanan T, Philip J, Jayakumar T, Raj B, Karunanithi R, Panicker TM, Korath MP, Jagadeesan K. Infrared thermal imaging for detection of peripheral vascular disorders. *J. Med Phys.* 2009 Jan; 34 (1): 43-7.
2. Brenner M, Braun C, Oster M, Gulko PS. Thermal signature analysis as a novel method for evaluating inflammatory arthritis activity. *Ann. Rheum. Dis.* 2006 Mar; 65(3):30611.
3. Golab-Lipinska MV, Jakubowska T, Wysocki M, Kaluzna K, Peszynski-Drews C. Thermography in the early detection of breast cancer--our own experiences]. *Wiad. Lek.* 2004; 57 Suppl 1:87-90.
4. Gonzalez FJ. Infrared imager requirements for breast cancer detection. *Conf.Proc.IEEE Eng Med Biol.Soc.* 2007:33124.
5. Anonymous. Electro Interstitial Scan, L.D. Technology, Miami, U.S.A. 2009.
6. Fogh-Andersen N, Altura BM, Altura BT, Siggaard-Andersen O. Composition of interstitial fluid. *Clin.Chem.* 1995 Oct; 41(10):1522-5.
7. Zafar, S., Streeter, T. W. J. A, Zafar, S. S: 'Effects of aroma oils on the Human Energy Field as shown by PIP Energy Field Imaging': p226 in *Role of Biotechnology in Medicinal and Aromatic Plants, Volume X*, Khan, I.A & Khanum, A., 2004, Ukaaz Publications, ISBN 81-88279-11-0
8. Mhatre, P.R., 2003. Polycontrast Interference Photography P667 Appendix 8.1 cited in *Principles of Integrated Medicine*, TATA McGraw Hill, ISBN 0-07-463734-7
9. *Measuring Energy Fields: State of the Art. GDV Bioelectrography series. Vol. I.* Korotkov K. (Ed.). Backbone Publishing Co. Fair Lawn, USA, 2004. 270 p. ISBN09742019X
10. Korotkov K. *Human Energy Field: study with GDV bioelectrography.* Backbone publishing, NY. 2002. 360 p. ISBN 096443119X.
11. Bell I., Lewis D.A., Brooks A.J., Lewis S.E., Schwartz G.E. Gas Discharge Visualisation Evaluation of Ultramolecular Doses of Homeopathic Medicines Under Blinded, Controlled Conditions. *J of Alternative and Complementary Medicine*, 2003, 9, 1: 25-37

APPENDIX A- INFORM CONSENT FORM



Centre for Biofield Sciences



**Students Memory Enhancer
Mat**

Participant Information and Informed Consent for
Students Memory Enhancer Mat

***TO VALIDATE THE EFFECTS OF STUDENTS MEMORY
ENHANCER MAT ON HUMAN BIO ENERGY FIELD.***

Protocol Number: 261113

Study Title: *TO VALIDATE THE EFFECTS OF STUDENTS MEMORY ENHANCER MAT
ON HUMAN BIO ENERGY FIELD.*

Principal Investigator: Dr.R.D.
Prayag

Address: The Centre for Biofield Sciences

World Peace Centre Maharashtra Institute of Technology

Paud Rd., Kothrud, Pune, India 411038

Phone Number: +91 (0) 20 2545 8748

After Hours: +91 (0) 9371004665

Informed consent

You are being invited to participate in an experimental study to validate the effects of Students Memory Enhancer Mat on human bioenergy field. Before you agree to join in this study, you need to know the risks and benefits so you can make an informed decision. This is known as “informed consent”.

This consent form tells you about the study that you may wish to join. Please read the information carefully and discuss it with anyone you want. This may include a friend or a relative. If you have questions please ask the Principle Investigator or study staff to answer them. Once you know about the study and the tests that will be done, you will be asked to sign this form to join this study. Your decision to take part in this study is voluntary. That means you are free to decide to join this study or not join this study. You are also free to leave the study at any time. If you choose not to join in this study, you can discuss regular medical care with the Principle Investigator.

We may learn new things during the study that you may need to know. We can also learn about things that might make you want to stop participating in the study. If so, you will be notified about any new information. Your decision will not affect your regular care. Your doctor’s attitude towards you will not change.

The Principle Investigator may remove you from this study for any reason.

You may be taken out of the study if:

1. Staying in the study would be harmful.
2. You fail to follow instructions.
3. You become pregnant.
4. The study is cancelled.

If you decide to leave the study, you should tell the Principle Investigator or study staff.

Trial Purpose and Participant Instructions

This is an experimental study of Students Memory Enhancer Mat. If you agree to join in this study, you will be randomly assigned. You are being asked to voluntarily participate in this 20 person study because you are a student and the ages of 16 to 25 years. If you join the study, you will be asked to come to the Centre for Biofield Sciences.

On your visit, the staff doctor will ask you general questions to decide if you meet the “entry criteria” for this study. If you decided to sign this Informed Consent, your doctor will ask you to fill out a questionnaire to find out how you are feeling and any medications you are taking.

Two non-invasive screening devices will be used to measure the energetic effects of the Mat and the scanning on each only takes a matter of minutes. One of the devices is **BIOFIELD VIEWER (BV)**; this device requires bare skin to be exposed to full spectrum lighting and measures the light reflection from the skin. For this reason, you will be asked to remove your shirt to monitor the energy level changes of bioenergy field. If you do not want to undress, you will not participate in the study. Other scan is **ELECTRO PHOTONIC IMAGING (EPI)** will measure the gas that escapes from your fingertips. You will be asked to put each finger tip on a plate and the amount of gas that comes out of your finger tips will be measured.

The first time you are scanned using BV and EPI devices, which will be your baseline scan. After the first set of scans, you will be asked to sit on the Mat for 20 mins and then rescanned.

On your visit, you will be asked:

- To come to the Centre for Biofield Sciences between 9am and 4pm. The time of the visits should be scheduled to occur within +/- 1 hour of the time of the visit.
- Not to do any vigorous exercise or consume alcohol for at least 24 hours before each visit.

Tell the study staff about any medications you are taking during the study. This includes prescription drugs, over-the-counter medicines and vitamins. Please tell your Principle Investigator or study staff if you have any unusual symptoms.

Risks and inconveniences energy infused mineral

Currently no known side effects of using Students Memory Enhancer Mat have been reported. If any new information is presented regarding the use of the Students Memory Enhancer Mat, we will inform you immediately of any changes.

Please report *immediately* to your Principle Investigator the occurrence of any unusual symptoms or undesirable effects.

Alternative to Participation

The alternative to participating in this study is to not participate in this study. You can continue to visit your current health care provider for your medical needs.

Benefits of Treatment

Your participation in this study may help people in the future.

Compensation for Participation

There is no financial compensation for the time you participate in this study.

Compensation for Subject Injury

If the study was done correctly and you are hurt by the Students Memory Enhancer Mat, the Portoworld company manufacturing the mat will pay for all reasonable medical bills that your insurance company does not pay. These are the only bills that manufacturing company will pay.

Tell the Principle Investigator if you think that being a participant in this study has caused you to be harmed. The Principle Investigator will tell you if you can get medical care for your problem and how to receive it. Contact the Principle Investigator or his/her staff at the telephone number listed on Page 2 of this document.

Confidentiality

Records from this study, which identify you, will be kept confidential. Only select authorized personnel may view documents that identify you directly. This may include Portoworld staff or study site personnel, including the study doctor. Regulatory authorities, such as the FDA may inspect confidential data that identifies you by name. All your records will be kept in a locked area that can only be accessed by authorized staff. Your demographic information will be kept in a locked file under the possession of the primary researcher and in all other documents shared with other Portoworld employees; you will be identified only by an ID number.

You will only be identified by an ID number and only the study doctor will be able to access your personal data. Your name, address, phone number and e-mail address will not be shared with external third parties.

Contact Information

The Principle Investigator or study staff will answer any questions you have about this experimental study or your participation in the study at any time during the study. Please call if you have any questions about the planned visits to the doctor's office or about what is expected of you while in the study. Please call right away if you have an injury, illness, or side effect. You may contact the Principle Investigator or his/her staff at the telephone number listed on Page 2 of this document.

By signing this document, you are agreeing to participate in the experimental study described above. Please remember that choosing to be in this study is voluntary and you may choose to leave the study at any time.

Participant Name

Date

Participant Signature

Date

Research Staff Signature

Date

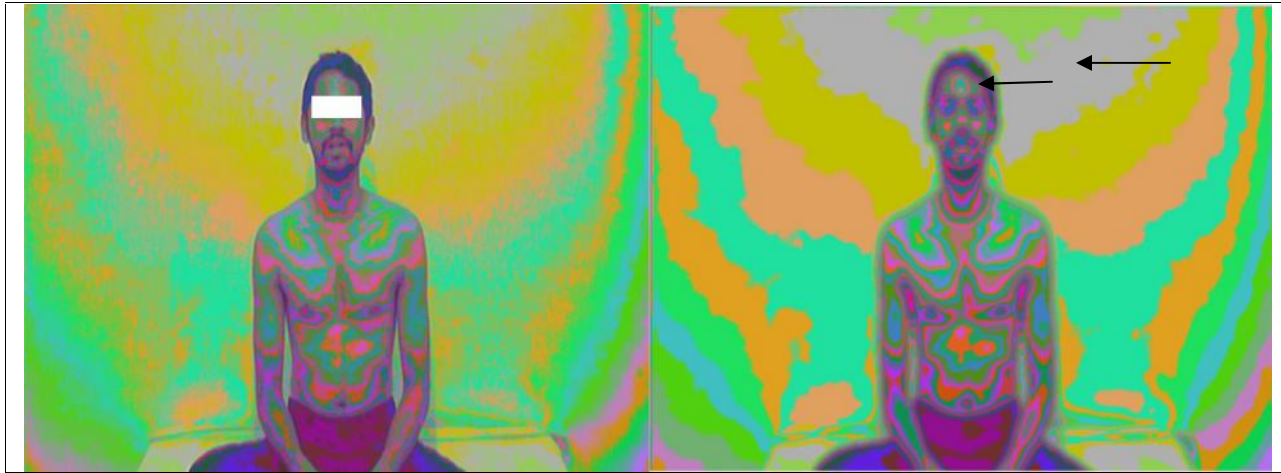
Principal Investigator Signature

Date

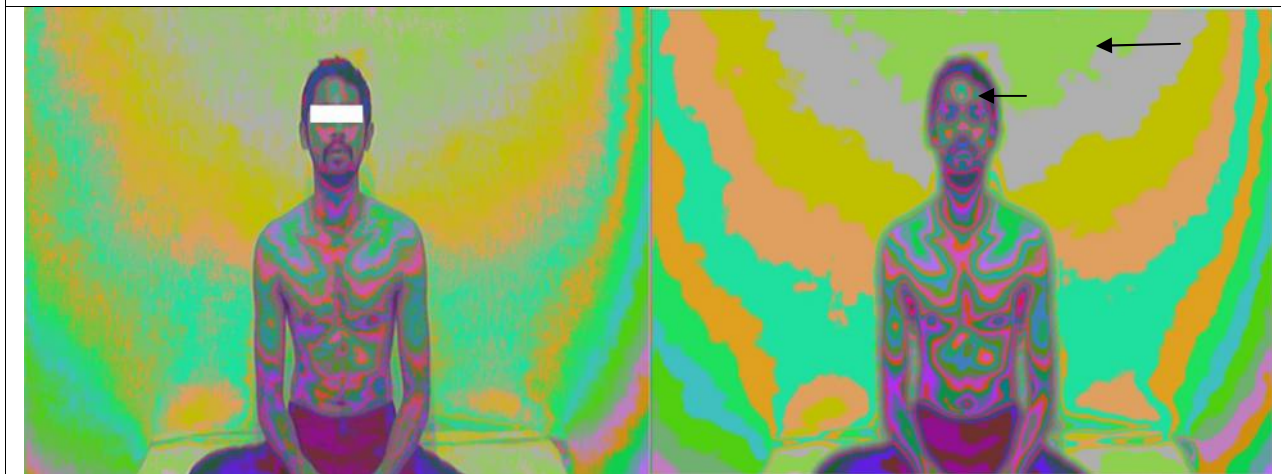
APPENDIX B

BIOFIELD VIEWER IMAGES

Case 1 (35918)



Before



After

Analysis: Increase in the energy level of crown can be seen in the after scan. Hyper mental activity grey has decreased and density of positive green has increased in after scan.

Case 2 (45363)



Before



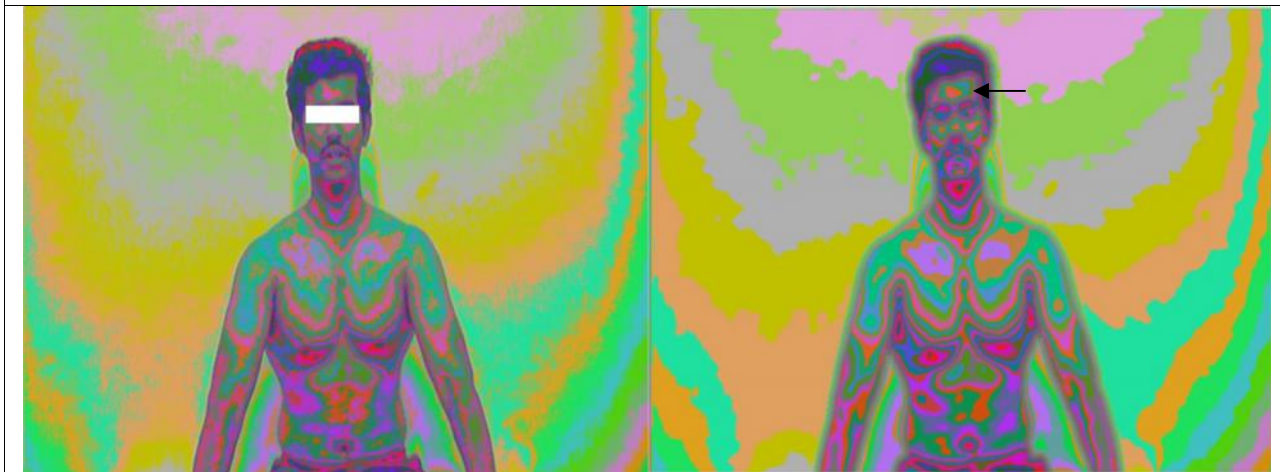
After

Analysis: Reduction in the low energy red colour can be seen in the brow chakra in after scan.

Case 3 (33002)



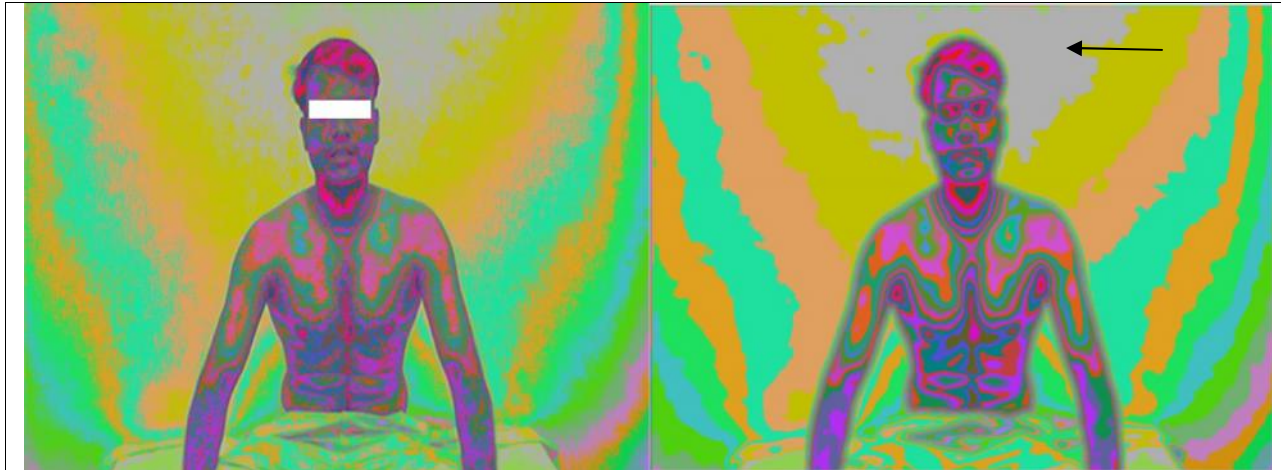
Before



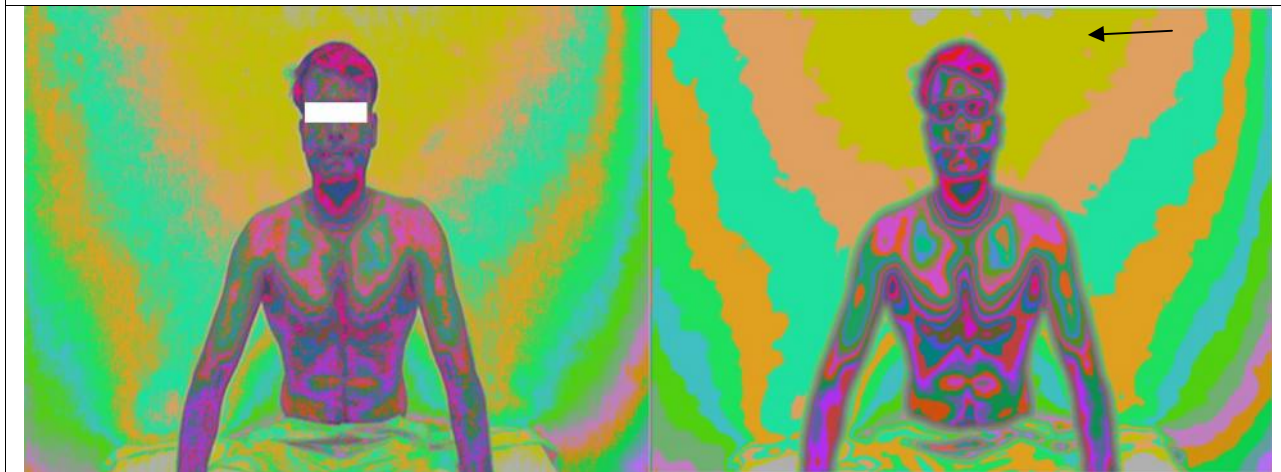
After

Analysis: Reduction in the low energy red colour can be seen in the brow chakra in after scan.

Case 4 (45004)



Before



After

Analysis: Increase in the energy level of crown can be seen in the after scan. Hyper mental activity grey has been replaced by calming and spiritual yellow has increased in after scan.

Case 5 (37180)



Before



After

Analysis: Improvement in the energy level of brow chakra can be seen in the after scan. Red congested energy has been replaced by positive green.

Case 6 (48274)



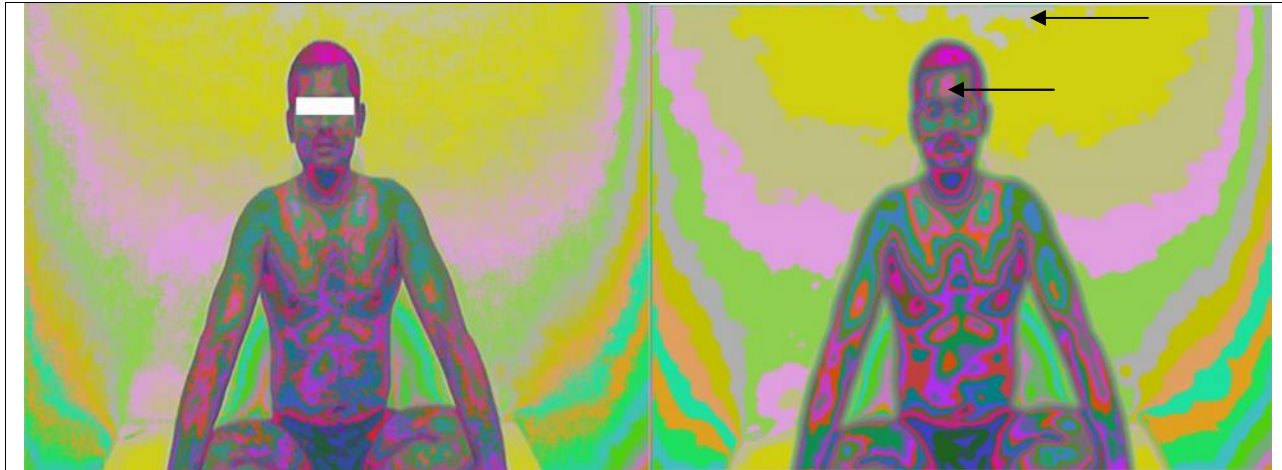
Before



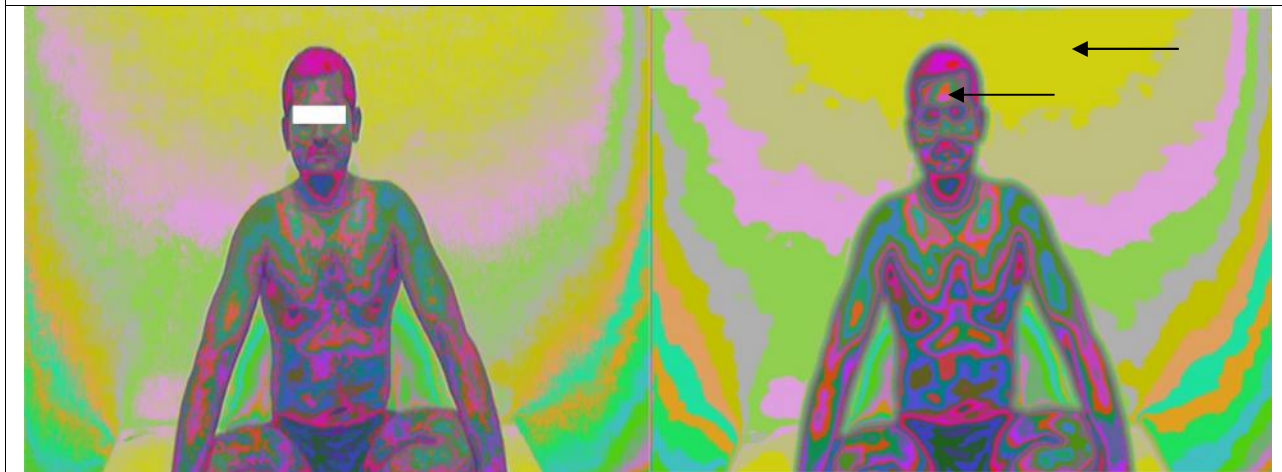
After

Analysis: Mixed changes can be seen. Increase in the energy level of crown can be seen in the after scan. Hyper mental activity grey has decreased and density of spiritual yellow has increased in after scan. Energy level of brow chakra has decreased in the after scan.

Case 7 (33491)



Before



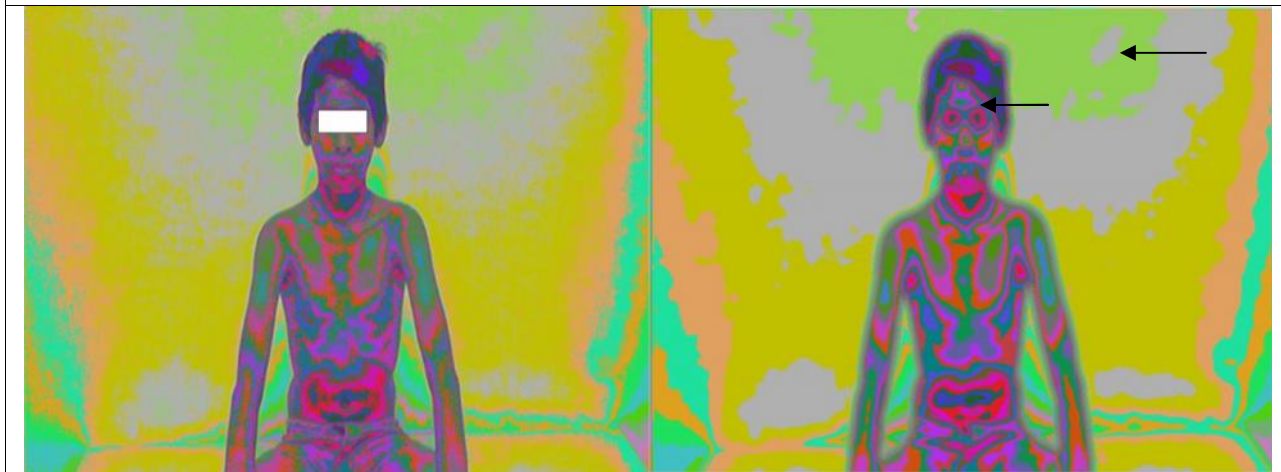
After

Analysis: Increase in the energy level of crown can be seen in the after scan. Calming and spiritual yellow has increased in after scan. Low energy of brow chakra has reduced in after scan.

Case 8 (33242)



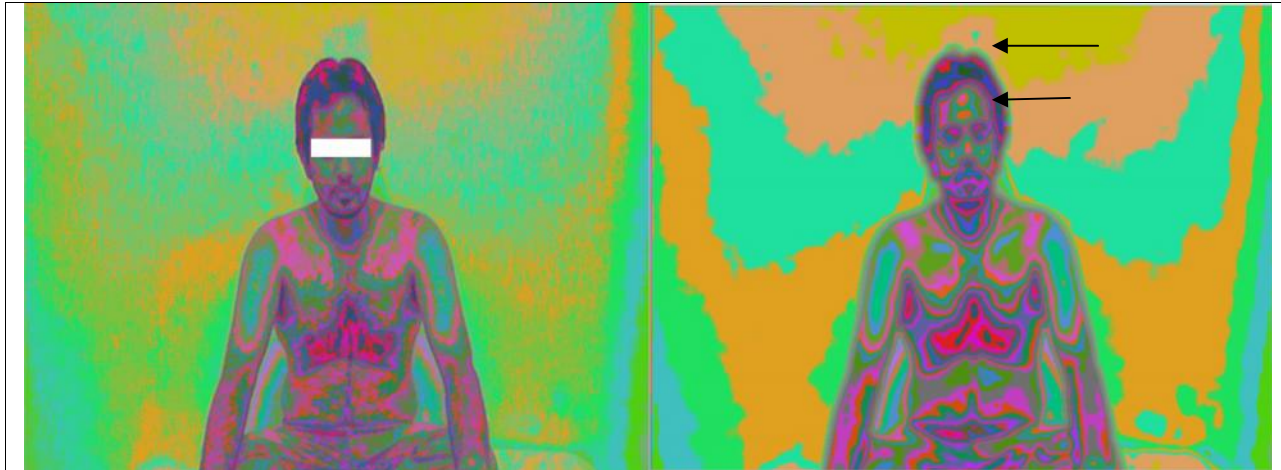
Before



After

Analysis: Density of the positive green has increased in the after scan. Improvement in the energy level of brow chakra can be seen as there is reduction in the low energy red colour.

Case 9 (46756)



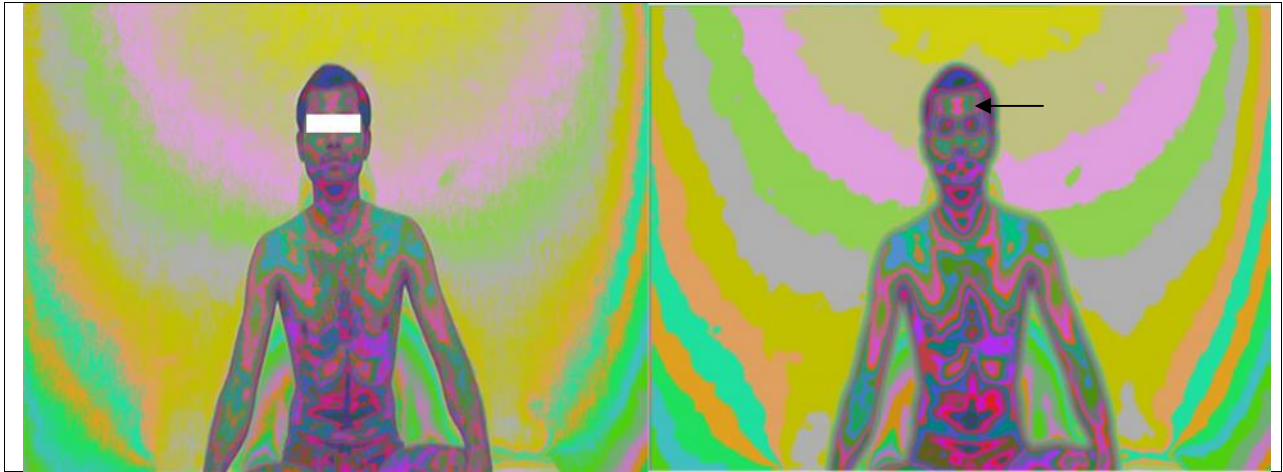
Before



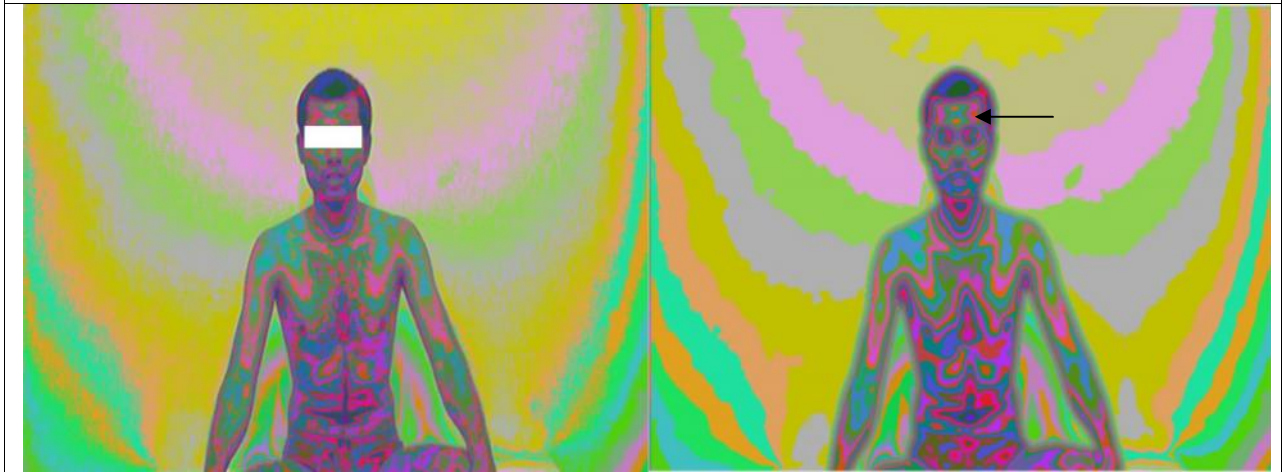
After

Analysis: Improvement in the energy level of brow chakra can be seen in the after scan. Red congested energy has been replaced by positive green.

Case 10 (38032)



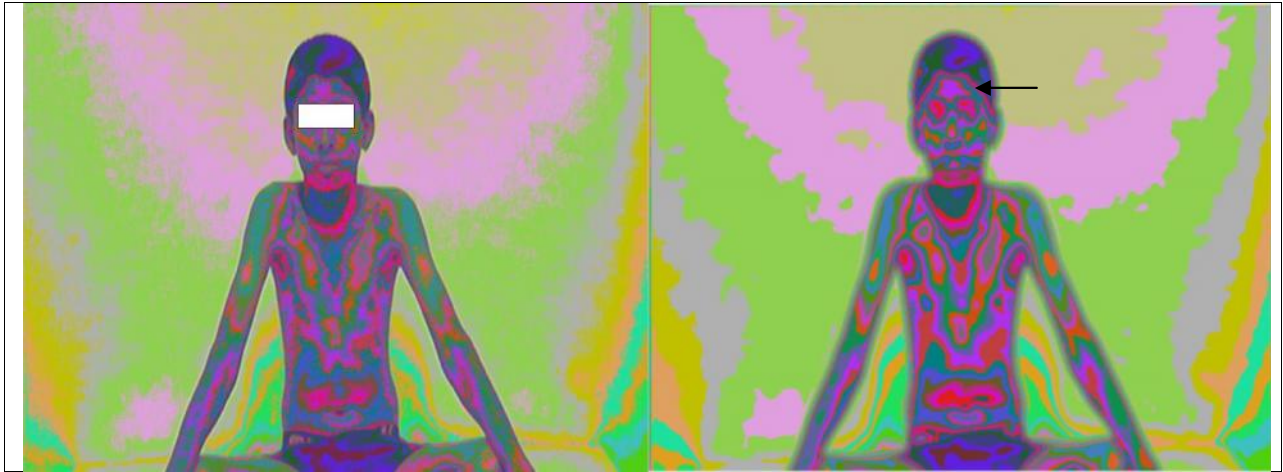
Before



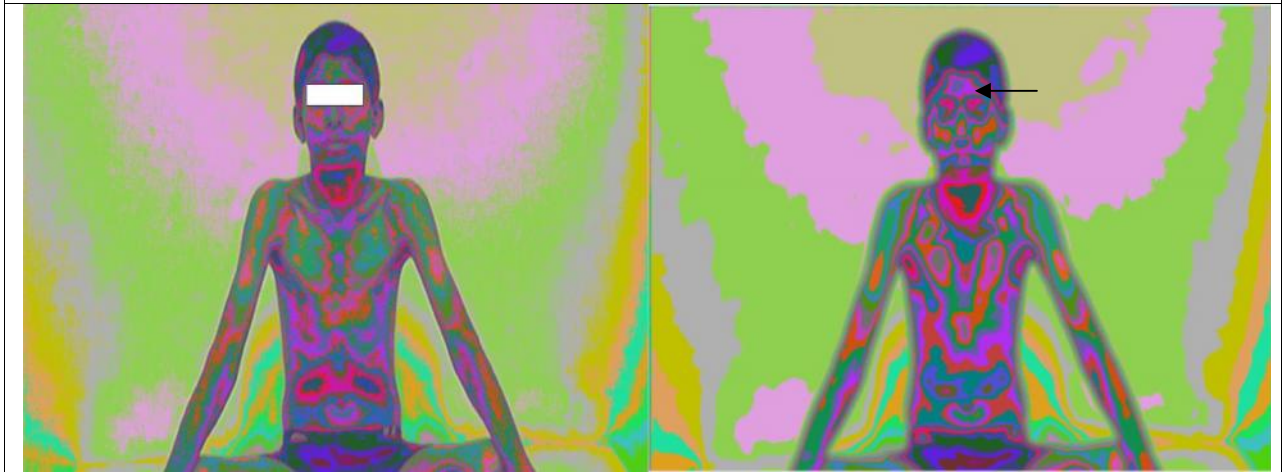
After

Analysis: Red congested energy of brow chakra has been replaced by positive green. Increased energy level of brow can be seen.

Case 11(34224)



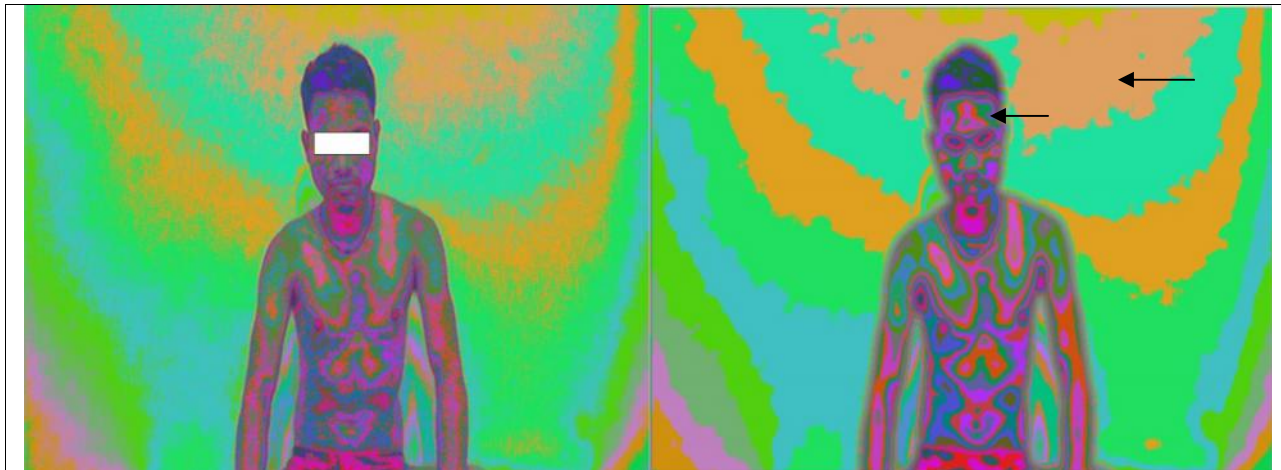
Before



After

Analysis: Reduction in the low energy can be seen in the brow chakra.

Case 12 (44589)



Before



After

Analysis: Low energy orange band can be seen in the before scan. In after scan low energy orange band has been replaced by healing pink, spiritual yellow. Congested red energy has been replaced by positive green. Improvement in the energy level of brow chakra can be seen in the after scan.

Case 13 (37902)



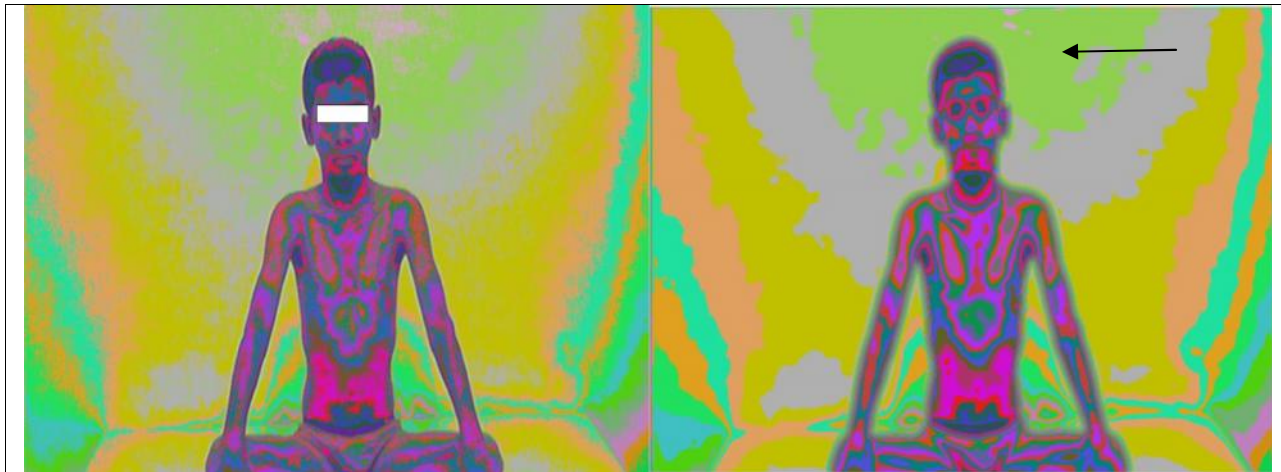
Before



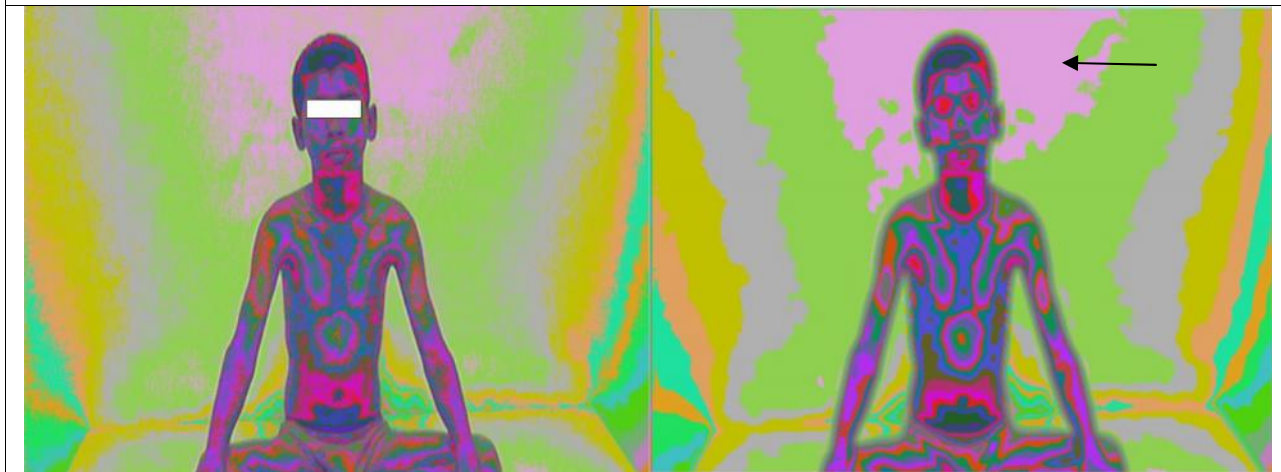
After

Analysis: Reduction in the low energy can be seen in the brow chakra.

Case 14 (49479)



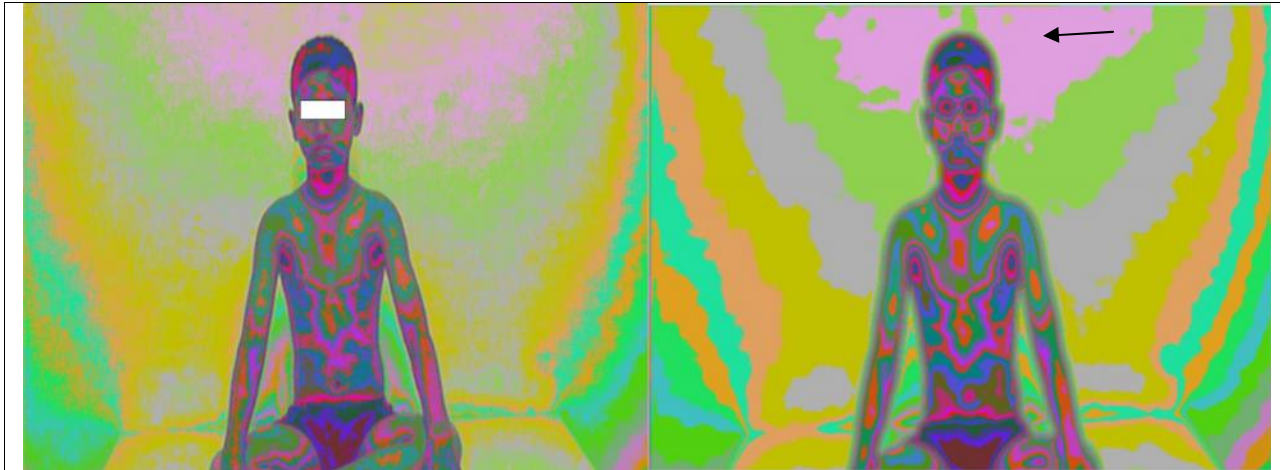
Before



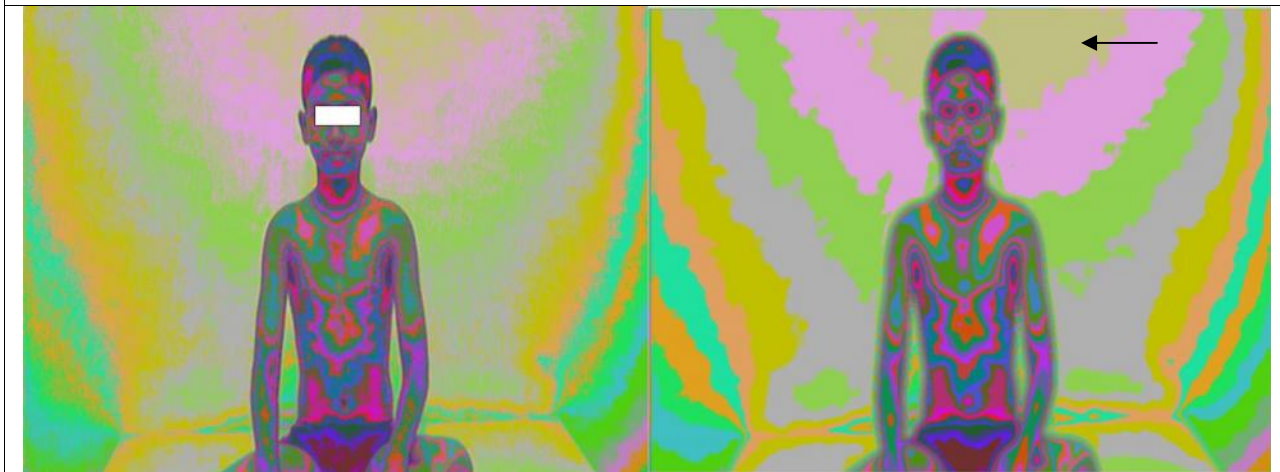
After

Analysis: Mixed changes can be seen. Increase in the energy level of crown can be seen in the after scan. Hyper mental activity grey has decreased and density of healing pink has increased in after scan. Energy level of brow chakra has decreased in the after scan.

Case 15 (39412)



Before



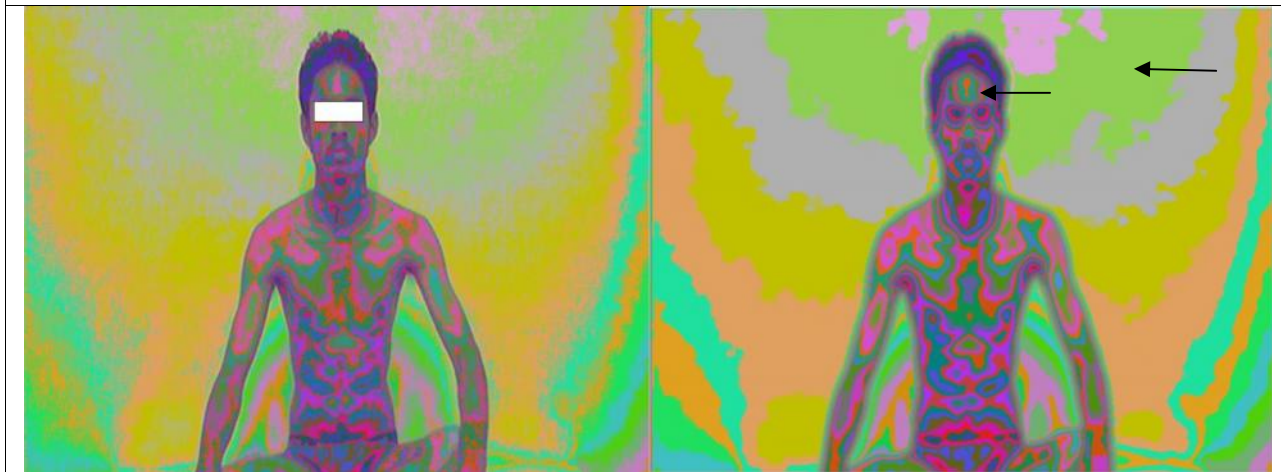
After

Analysis: Positive changes can be seen in the crown chakra.

Case 16 (46410)



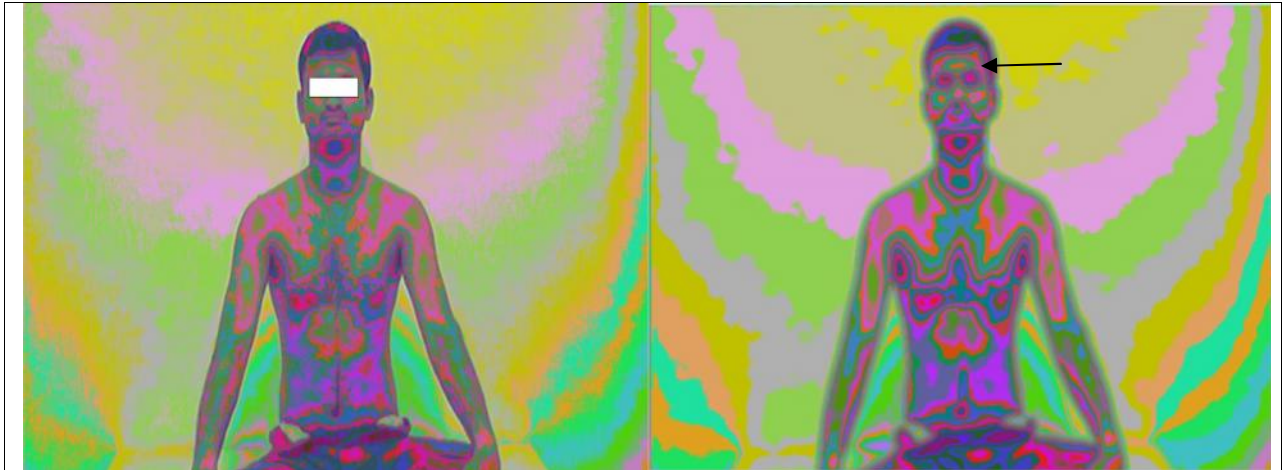
Before



After

Analysis: Congested red energy has been replaced by positive green. Improvement in the energy level of brow chakra can be seen in the after scan. Increase in the energy level of crown chakra can be seen.

Case 17 (52274)



Before



After

Analysis: Minimal positive changes can be seen in the brow chakra.

Case 18 (48864)



Before



After

Analysis: Red congested energy of brow chakra has been replaced by positive green. Increased energy level of brow can be seen.

Case 19 (36979)



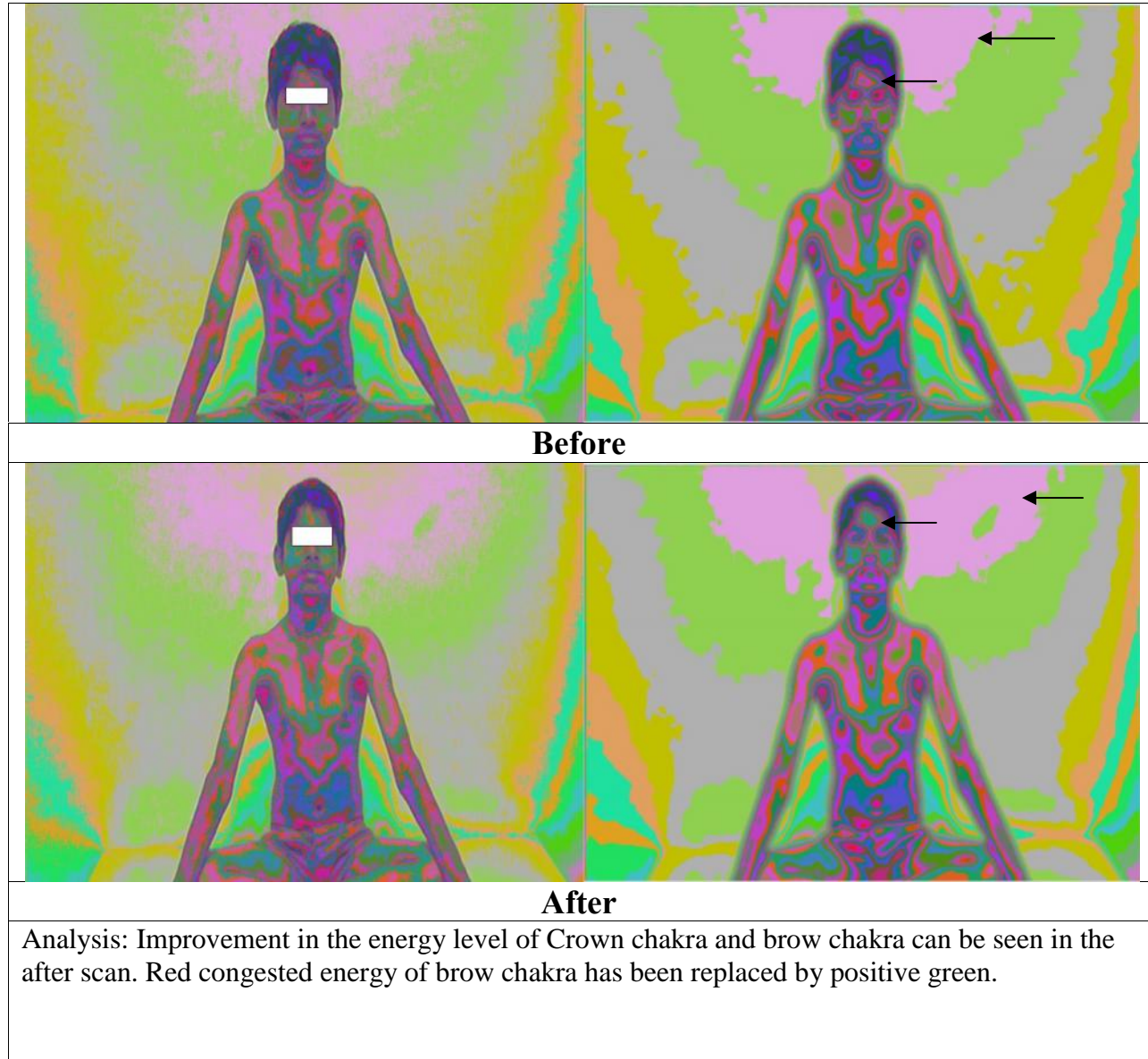
Before



After

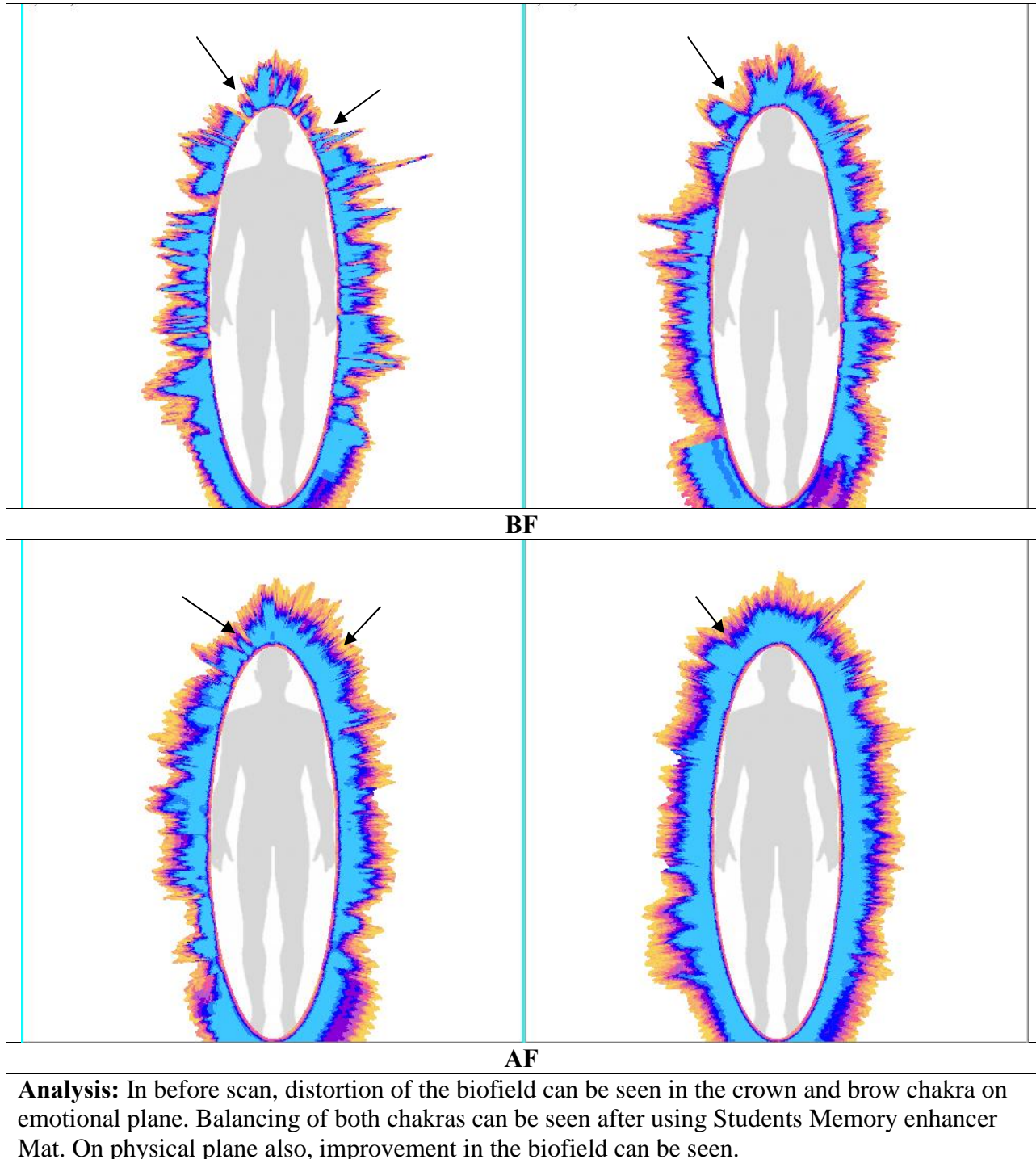
Analysis: Low energy orange band can be seen in the before scan. In after scan low energy orange band has been replaced by healing pink, spiritual yellow. Congested red energy has been replaced by positive green.

Case 20 (51547)

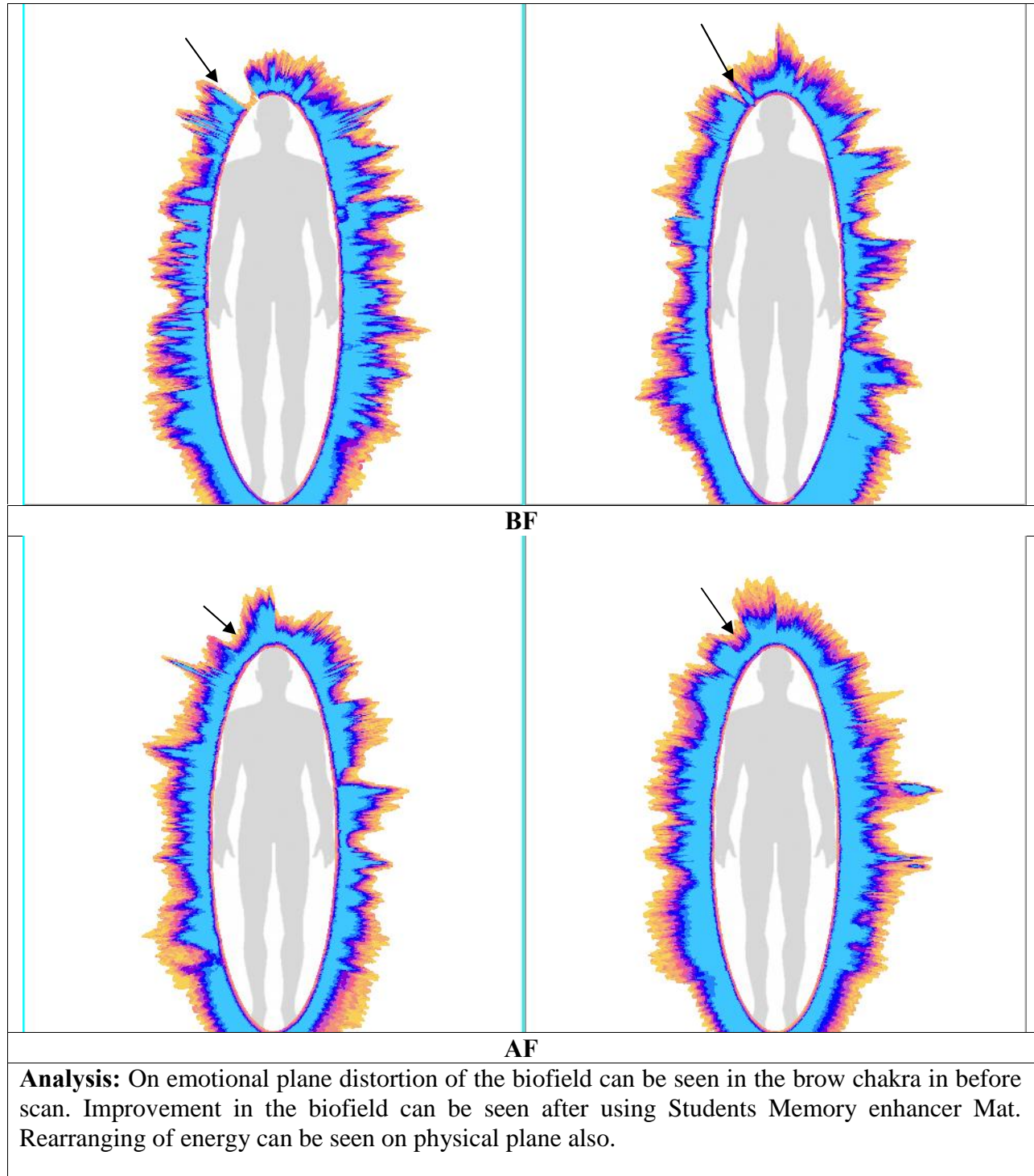


APPENDIX C
ELECTRO PHOTONIC IMAGING (EPI)

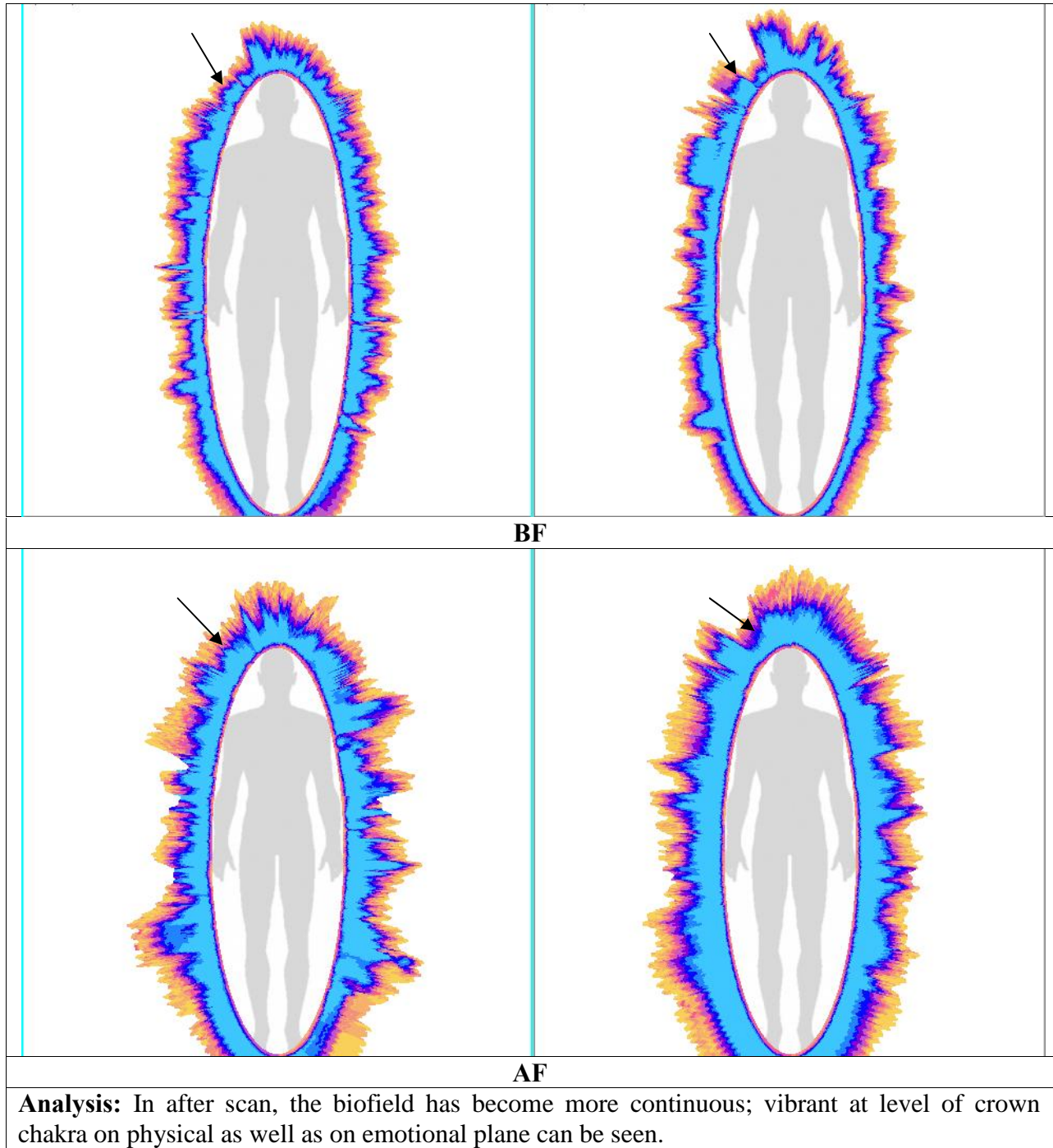
Case 1 (35918)



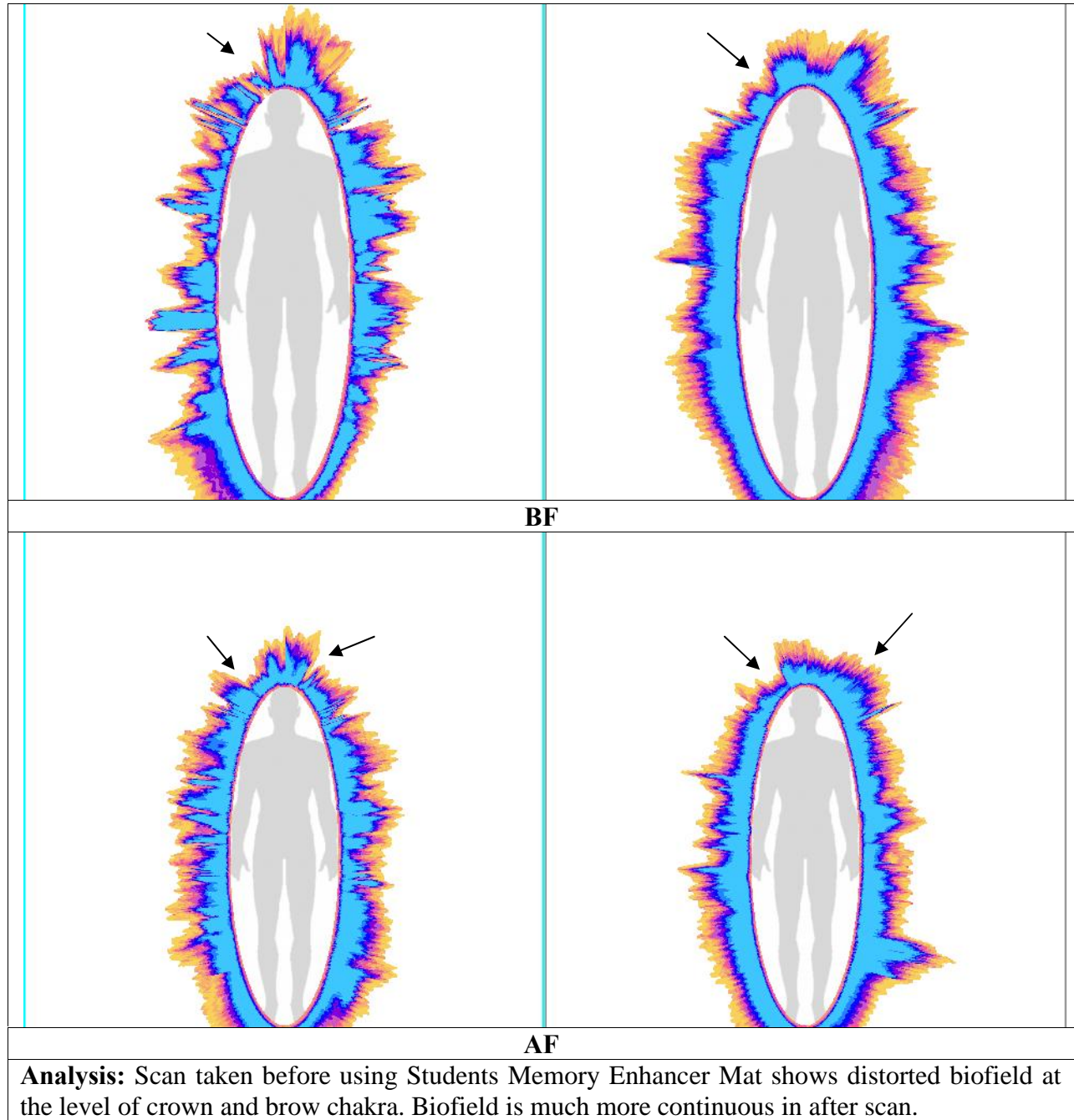
Case 2 (45363)



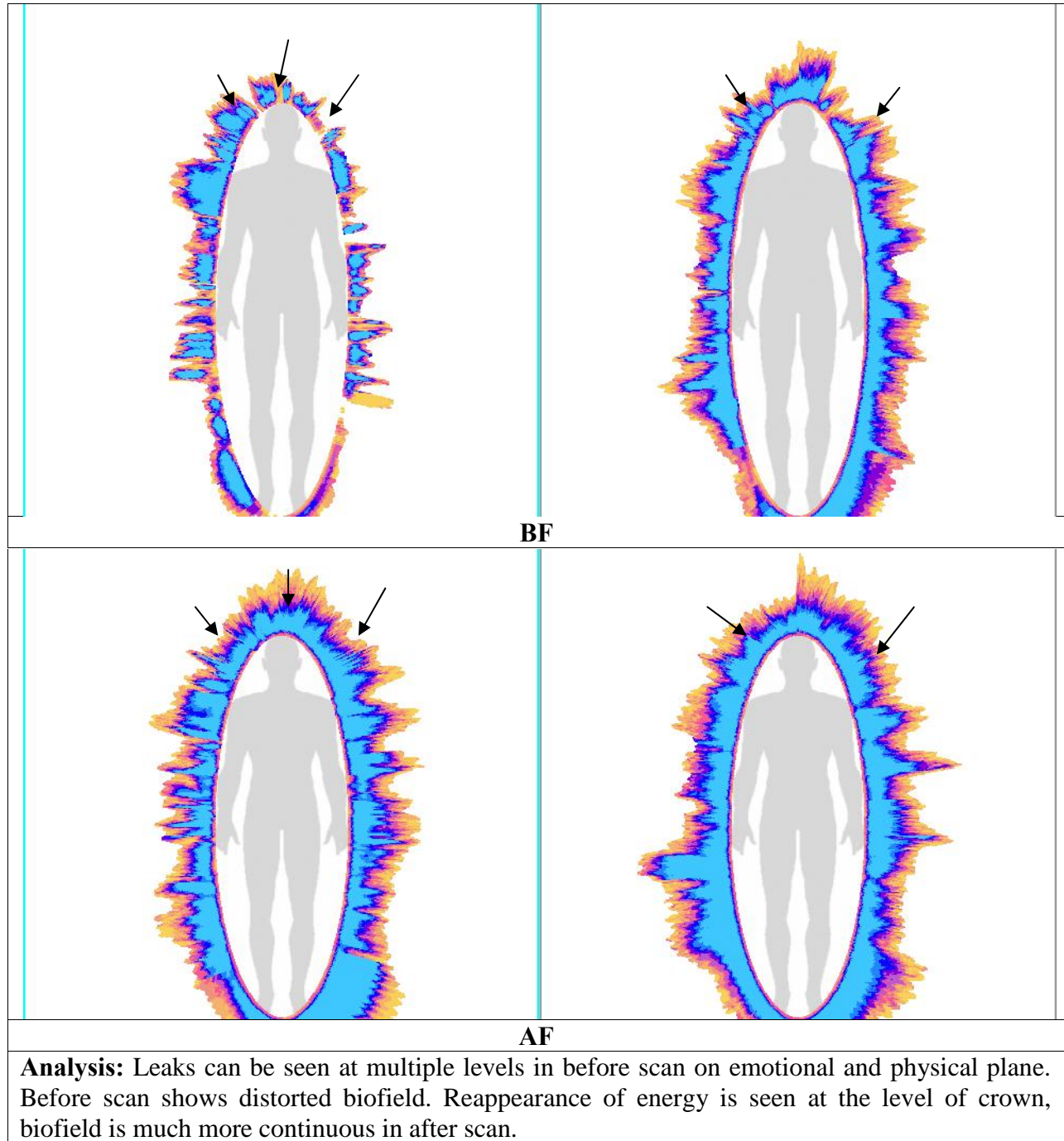
Case 3 (33002)



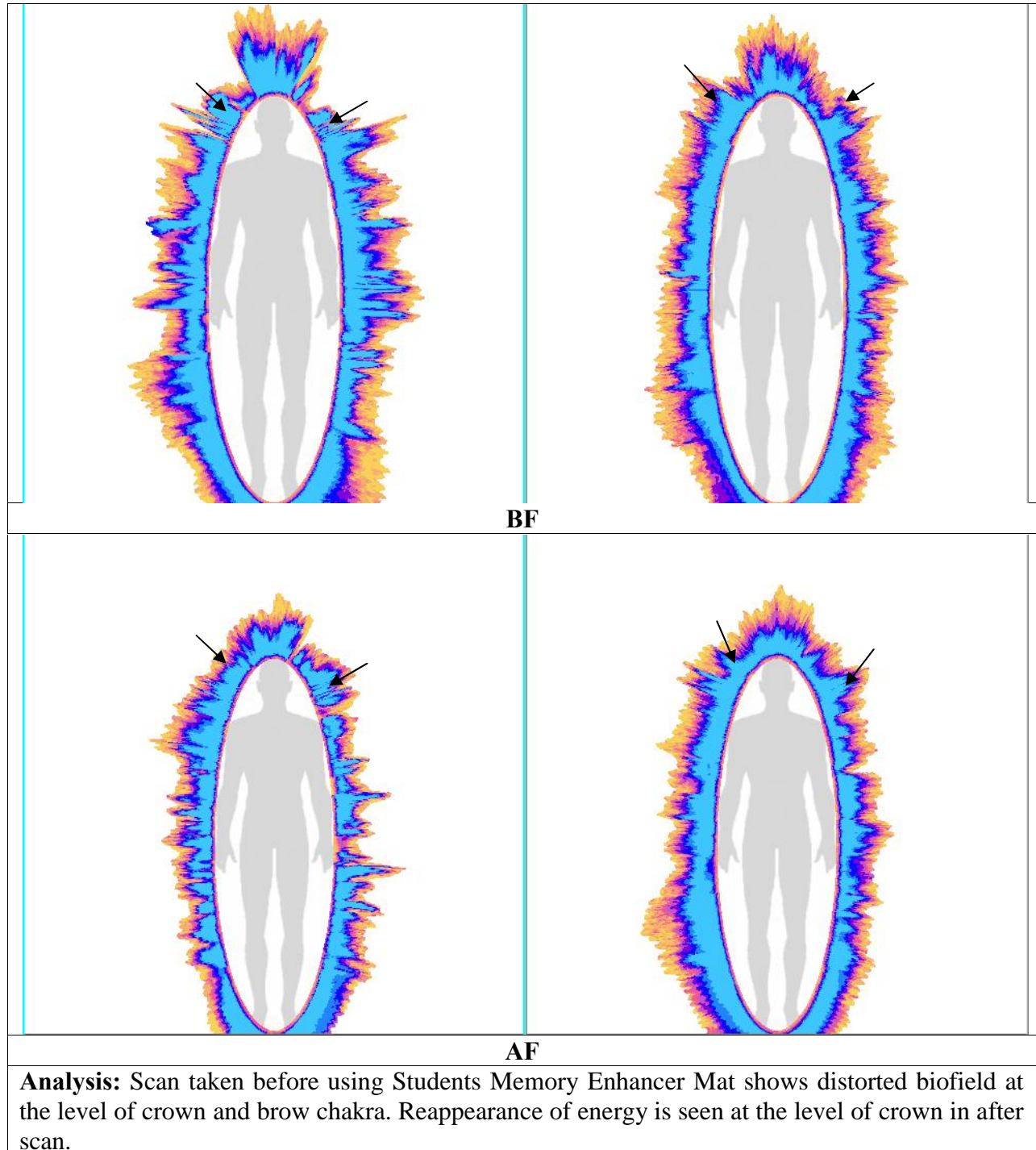
Case 4 (45004)



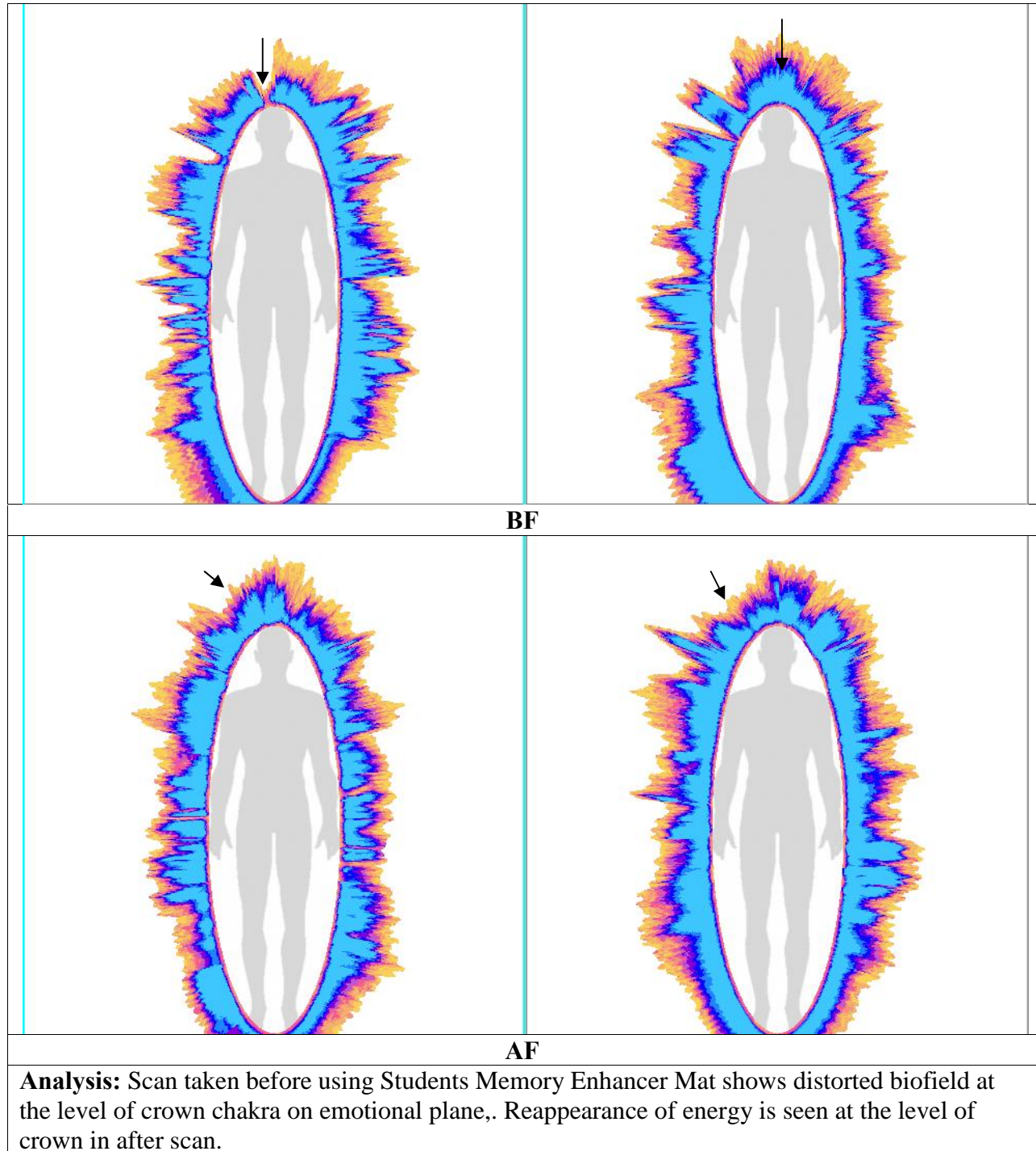
Case 5 (37180)



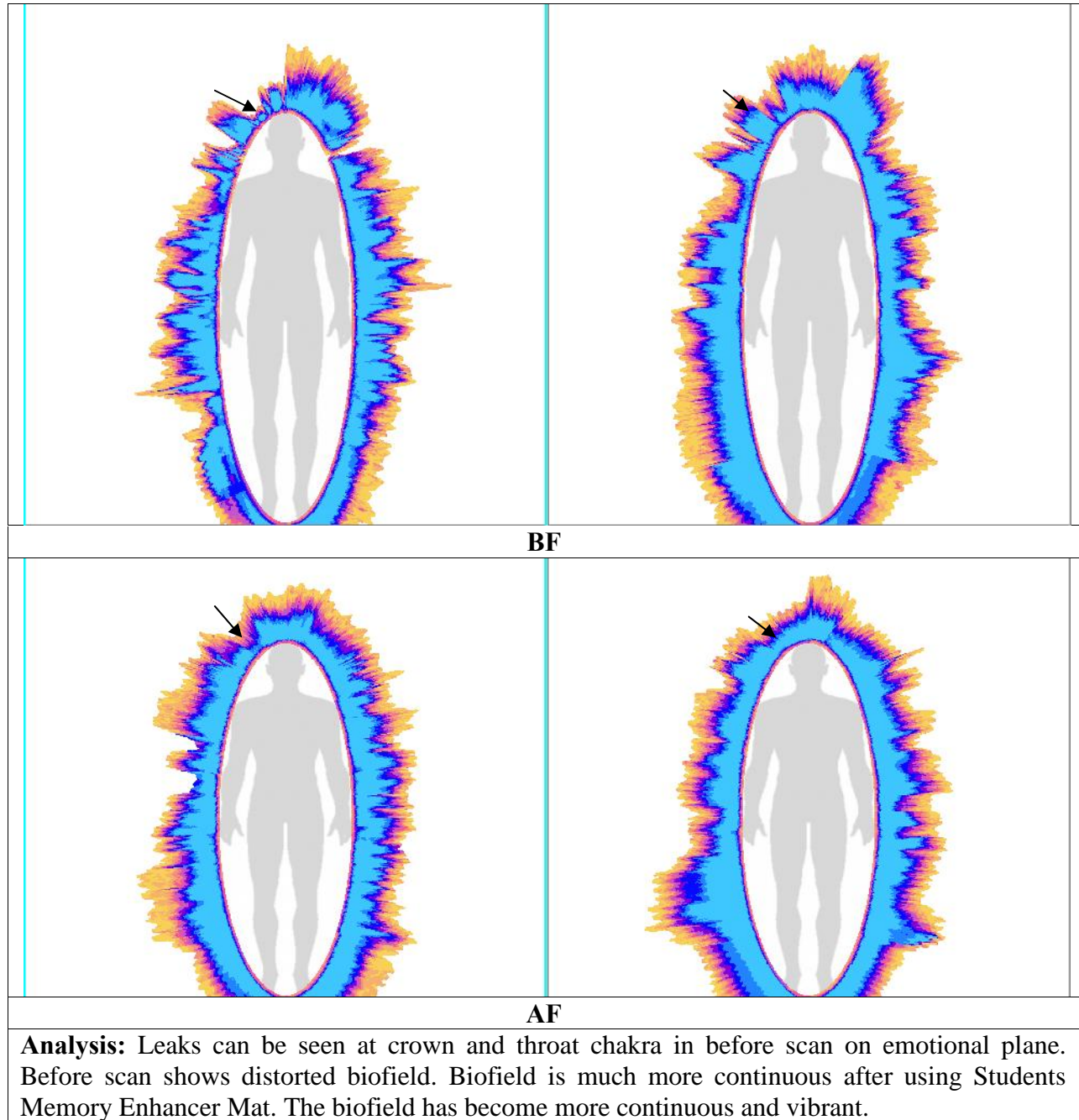
Case 6 (48274)



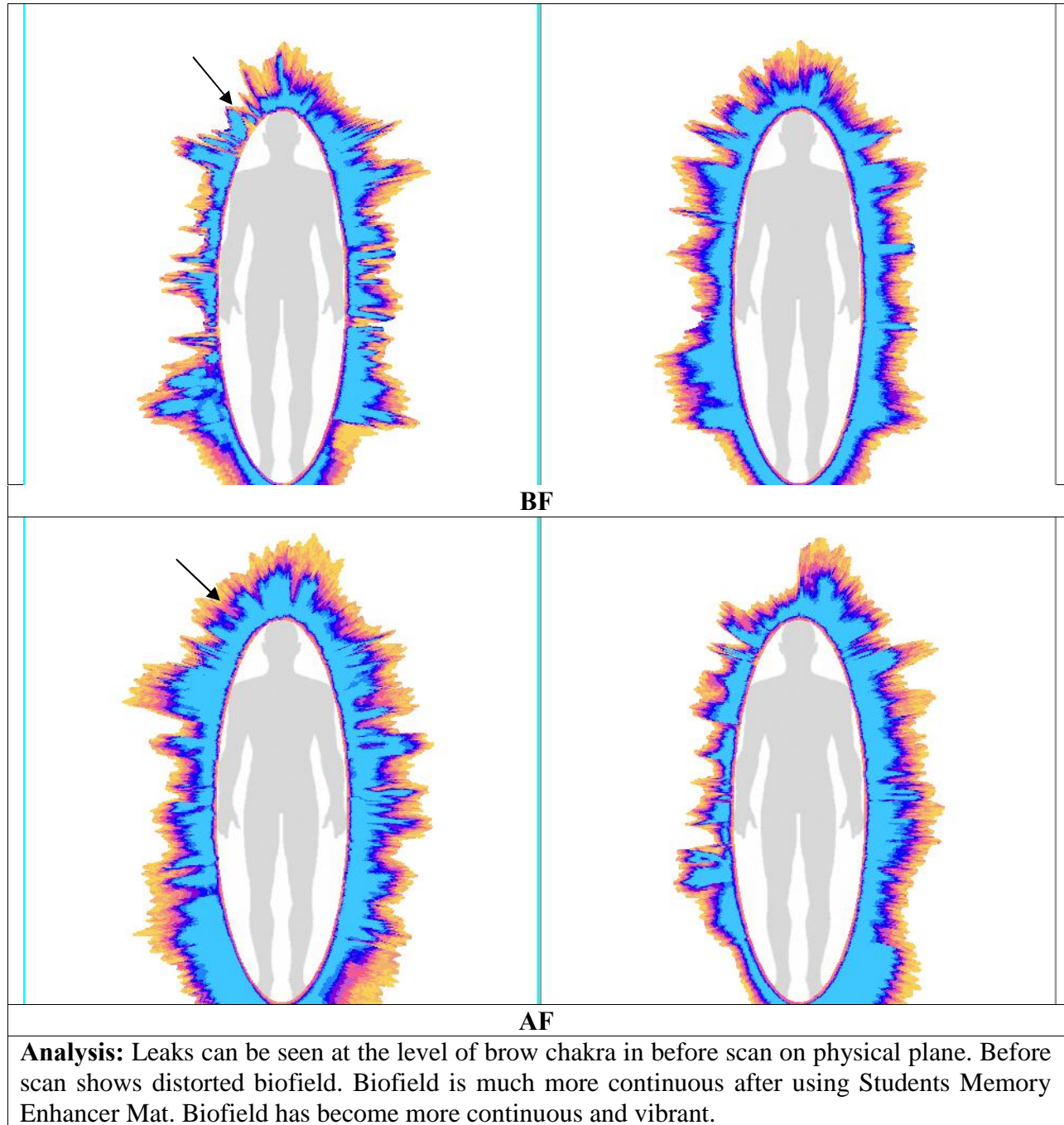
Case 7 (33491)



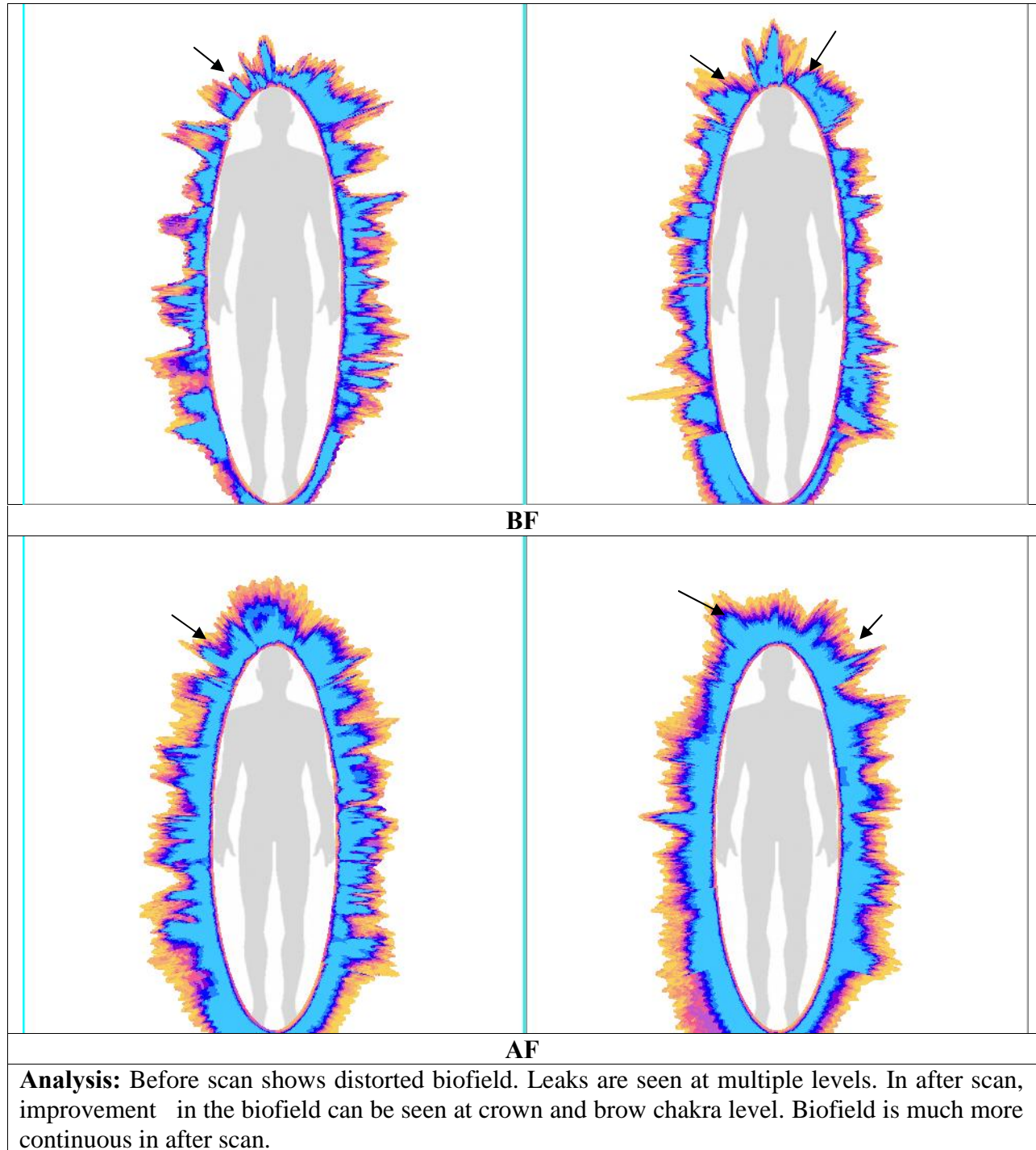
Case 8 (33242)



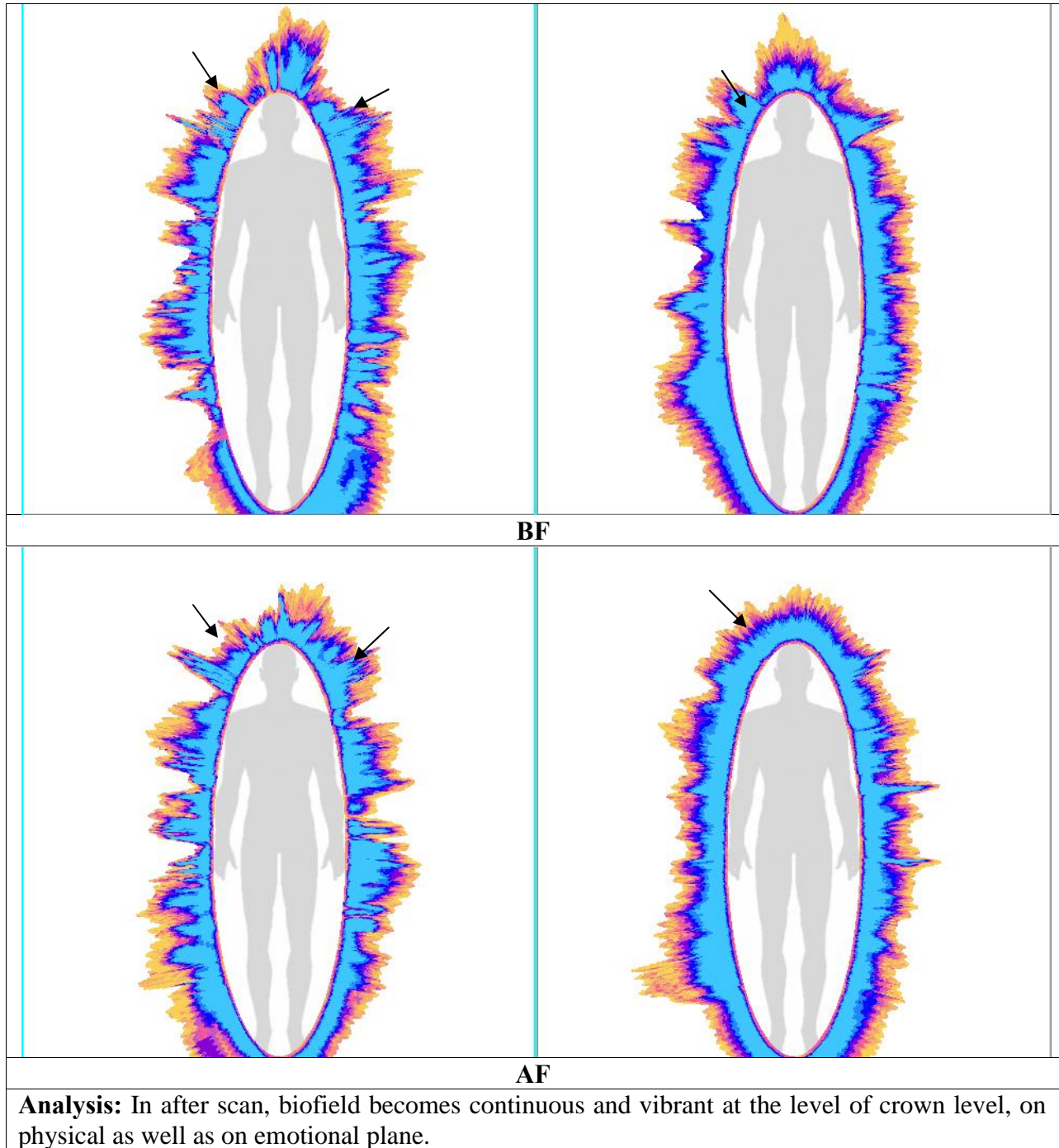
Case 9 (46756)



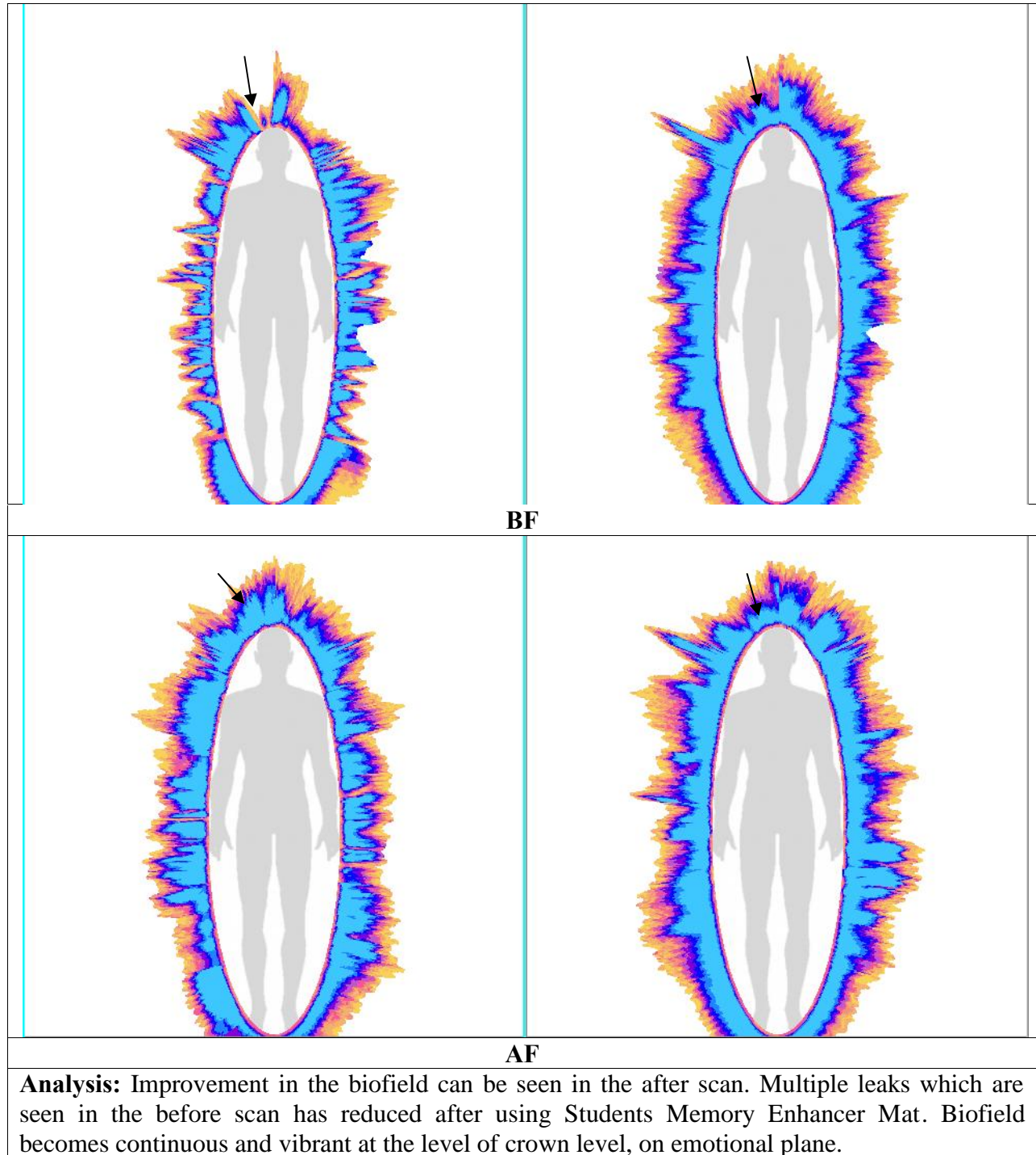
Case 10 (38032)



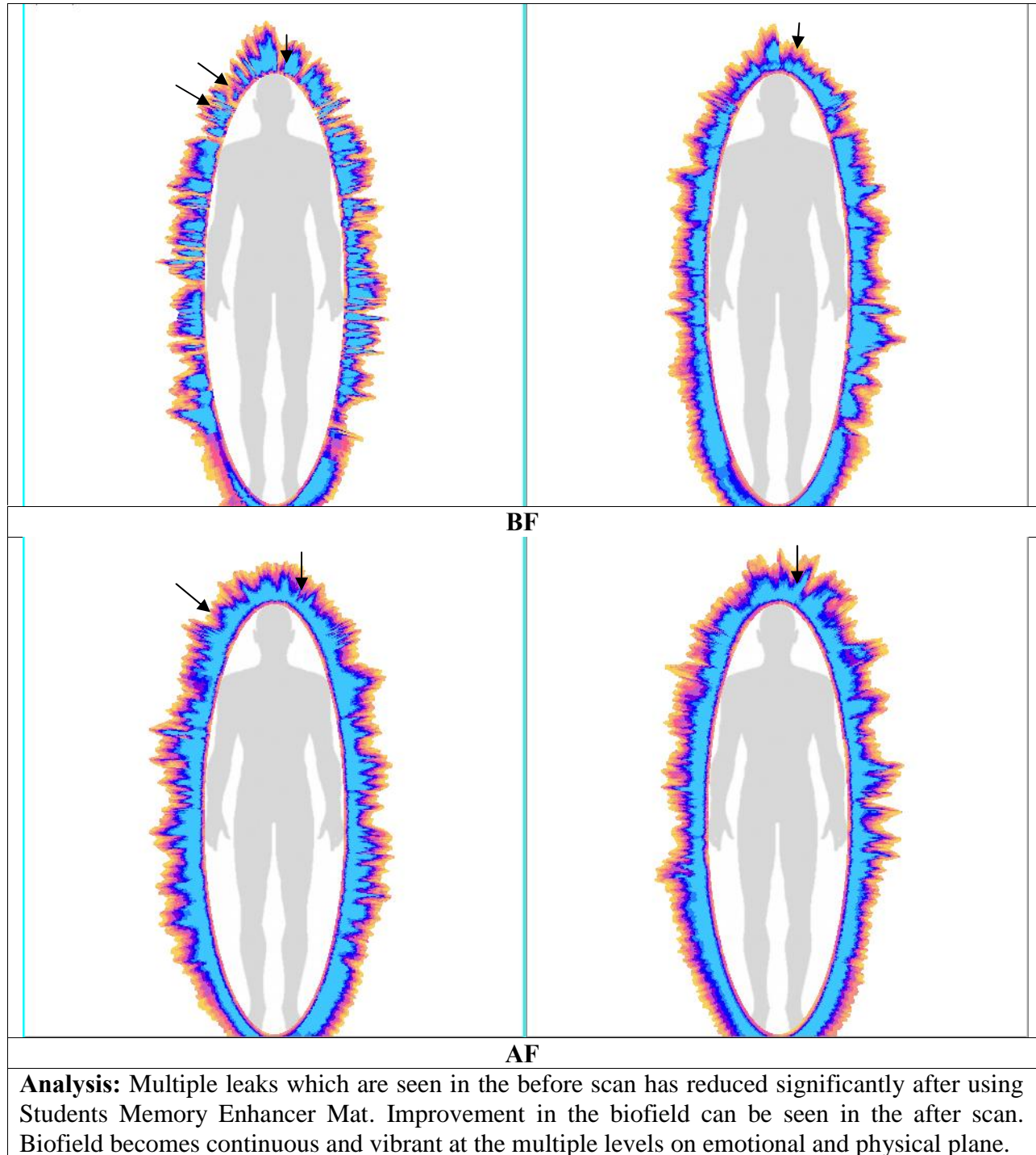
Case 11(34224)



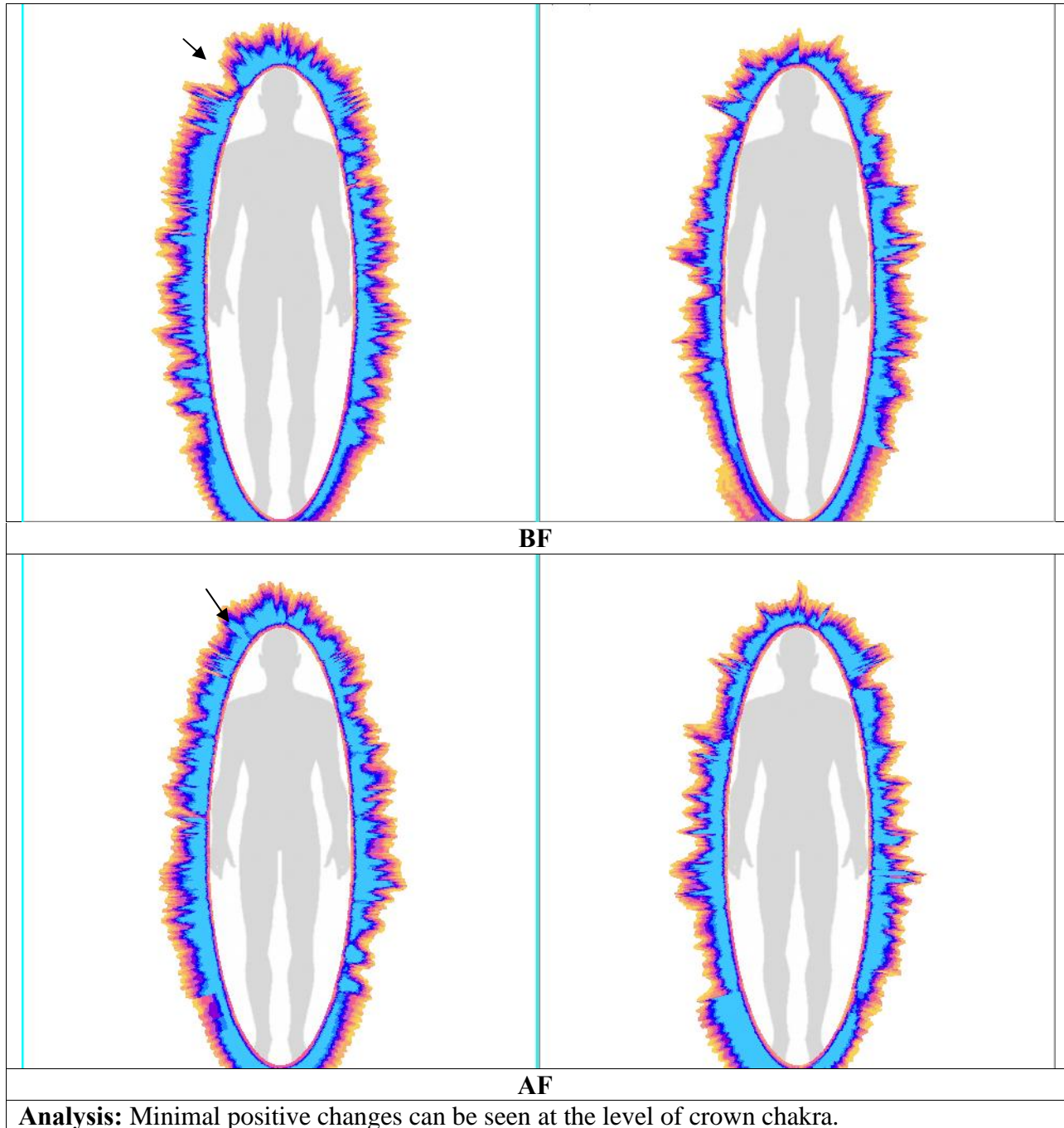
Case 12 (44589)



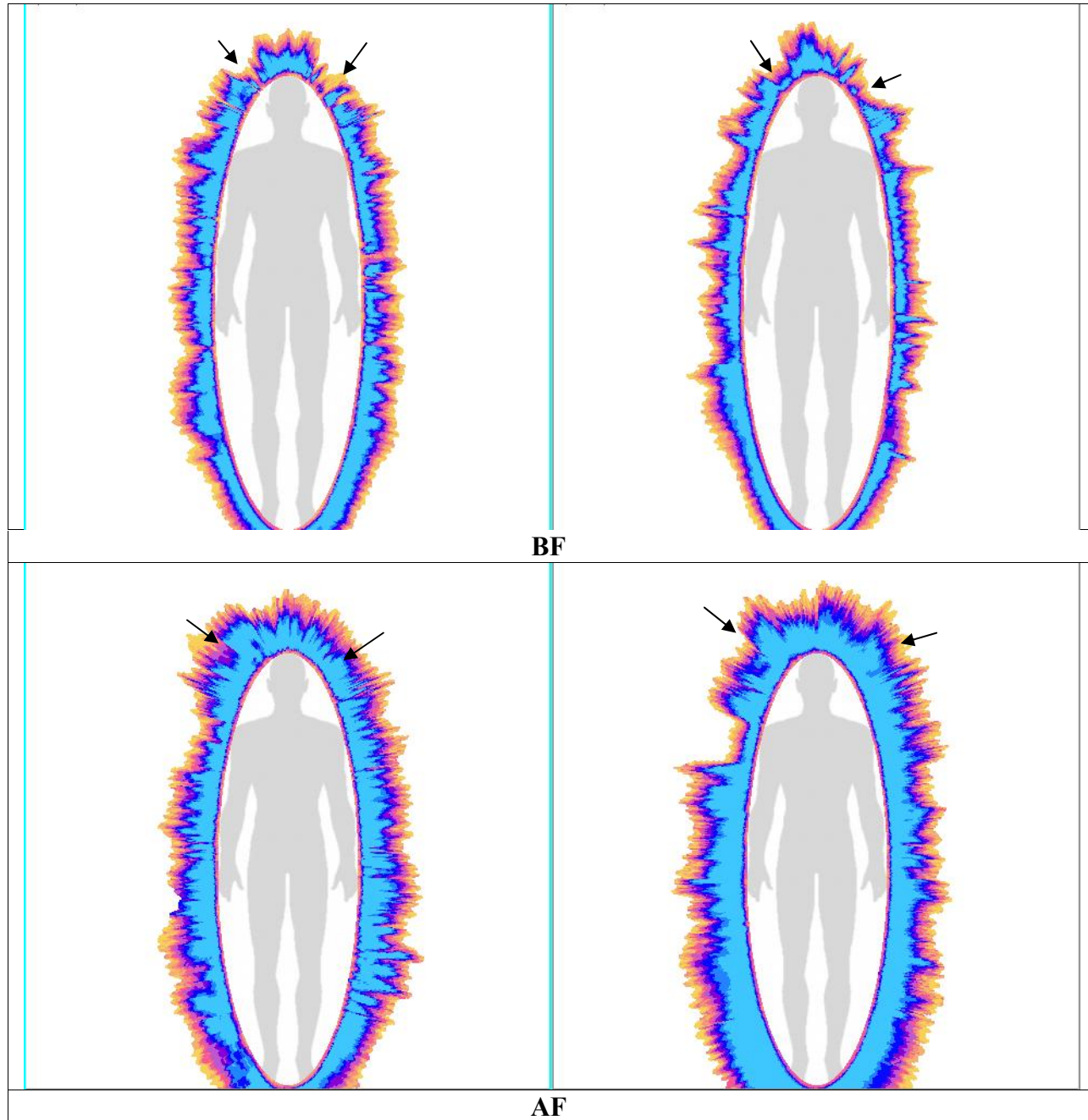
Case 13 (37902)



Case 14 (49479)

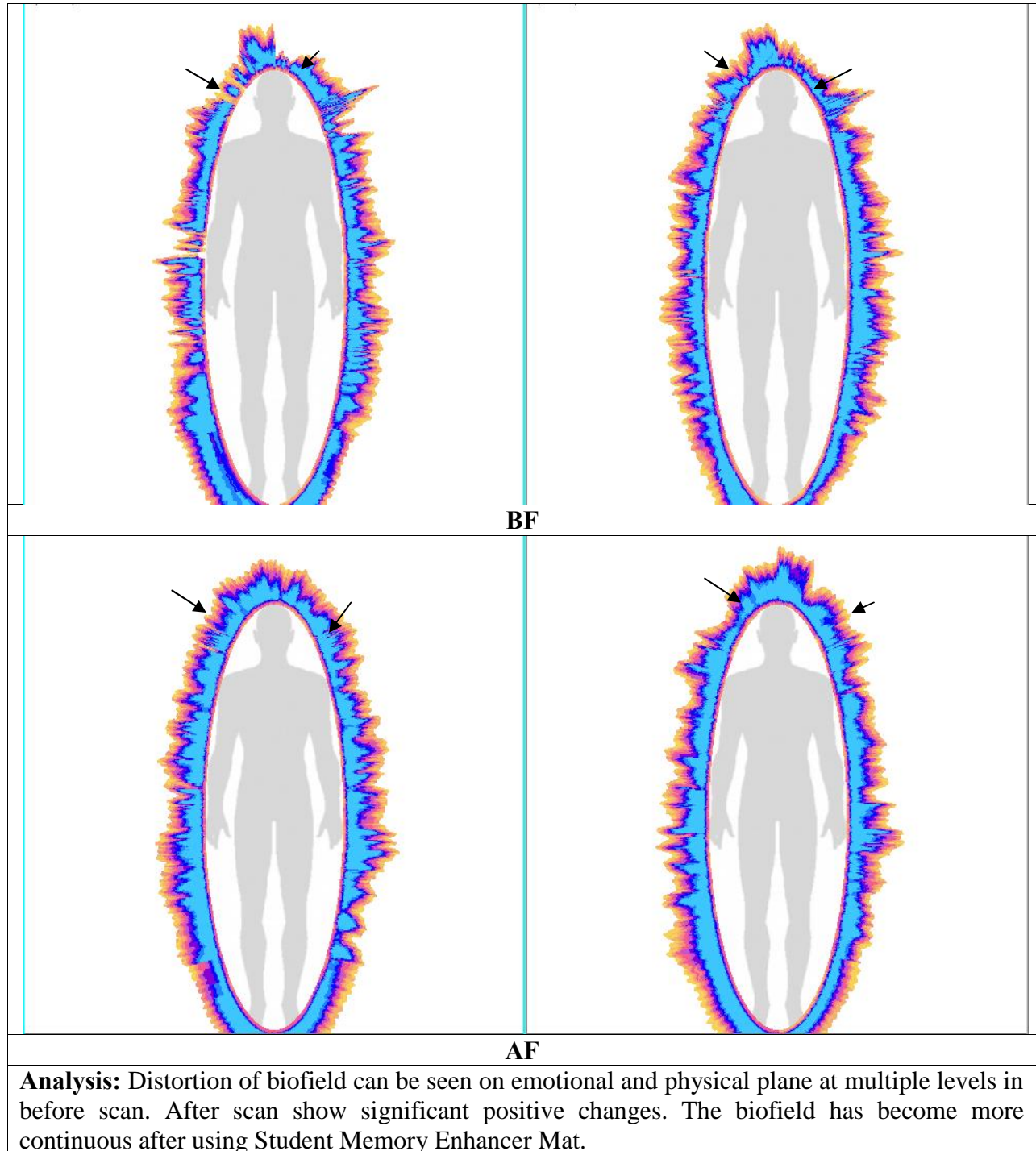


Case 15 (39412)

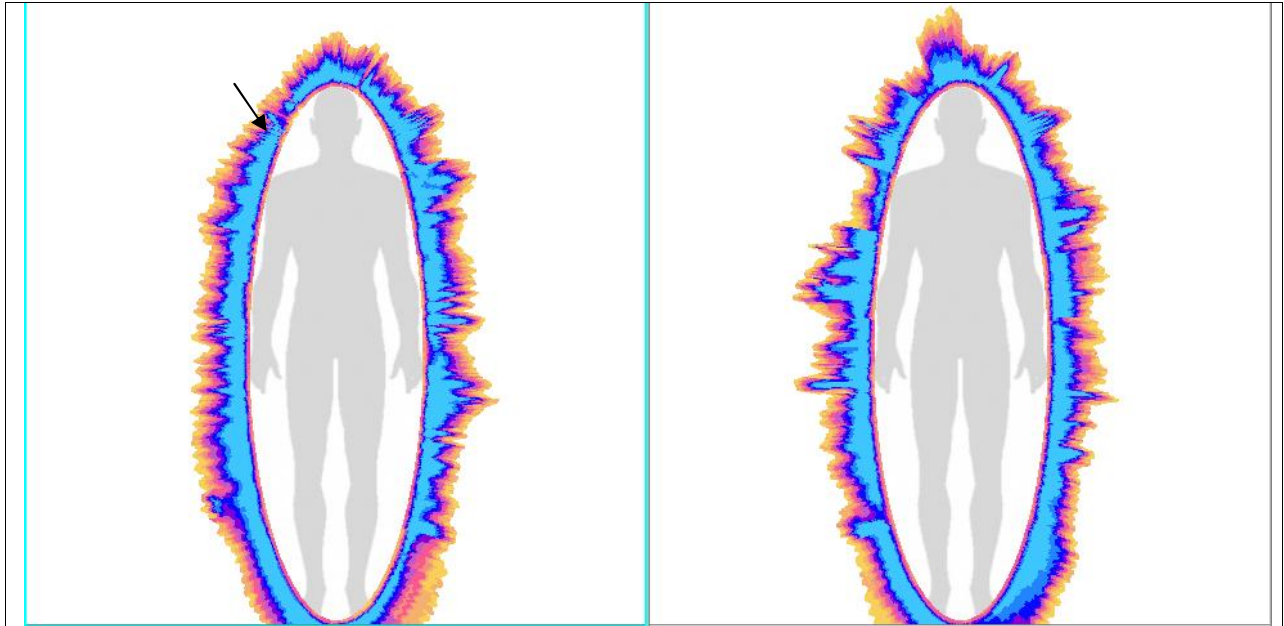


Analysis: Scan taken before using Students Memory Enhancer Mat shows distorted biofield at the level of crown and brow chakra. Leaks are seen at multiple levels. Reduction of leaks at the level of crown can be seen. Biofield is much more continuous on emotional plane. After scan show significant positive changes. The biofield has become more continuous, vibrant.

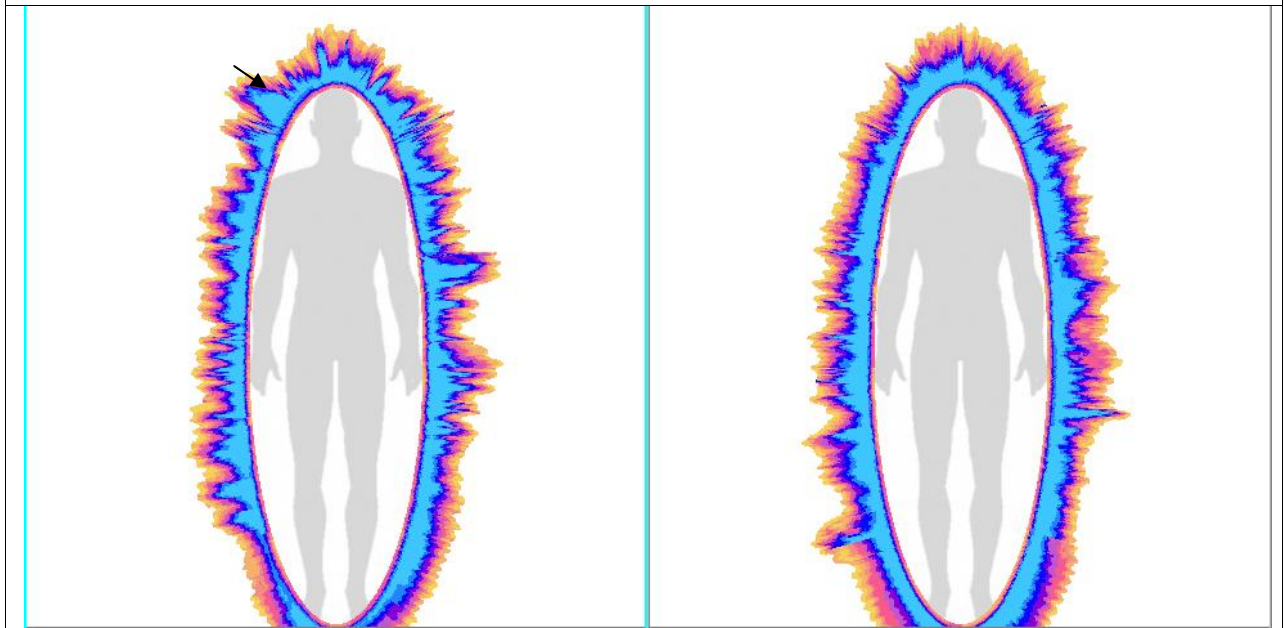
Case 16 (46410)



Case 17 (52274)



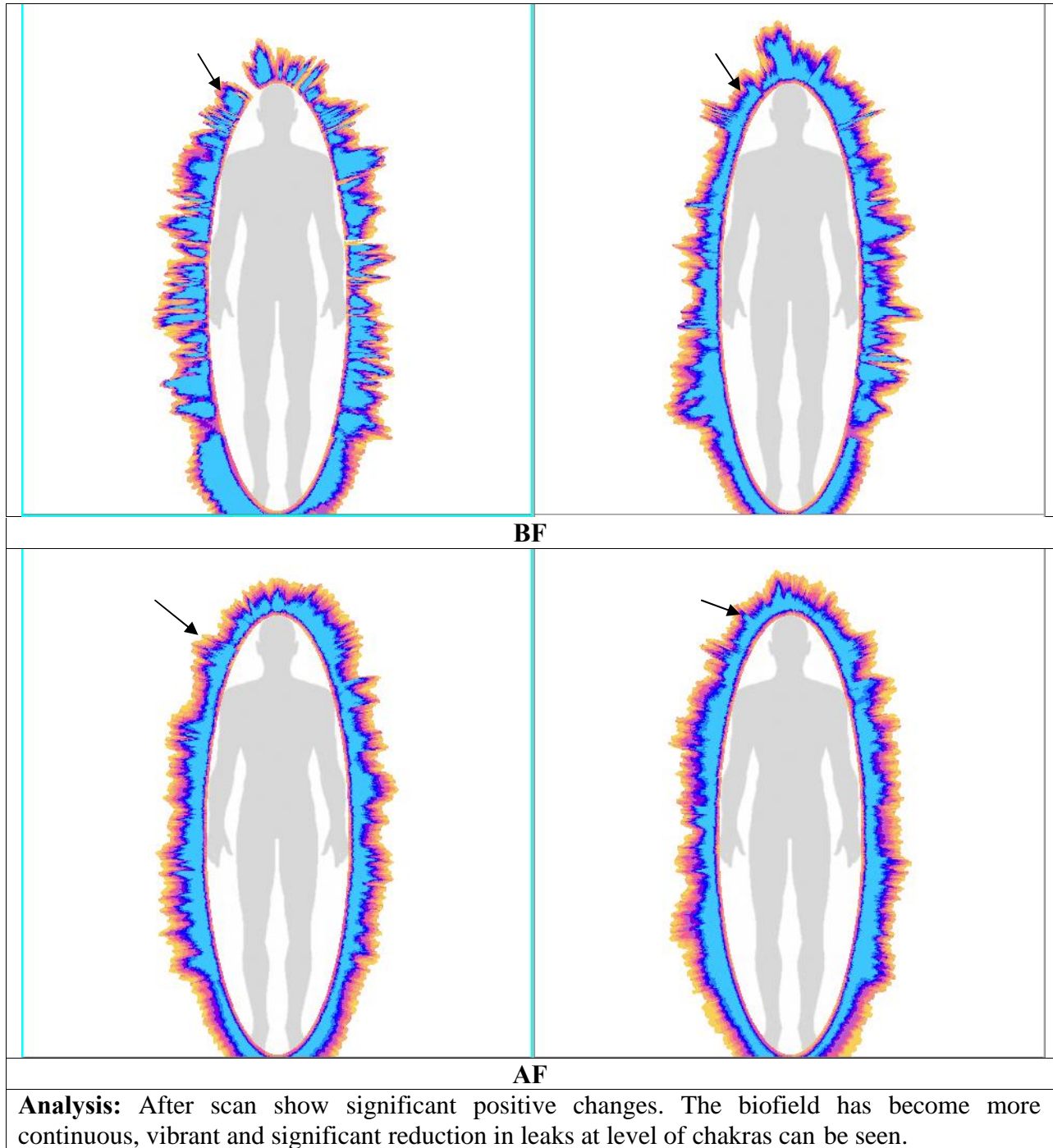
BF



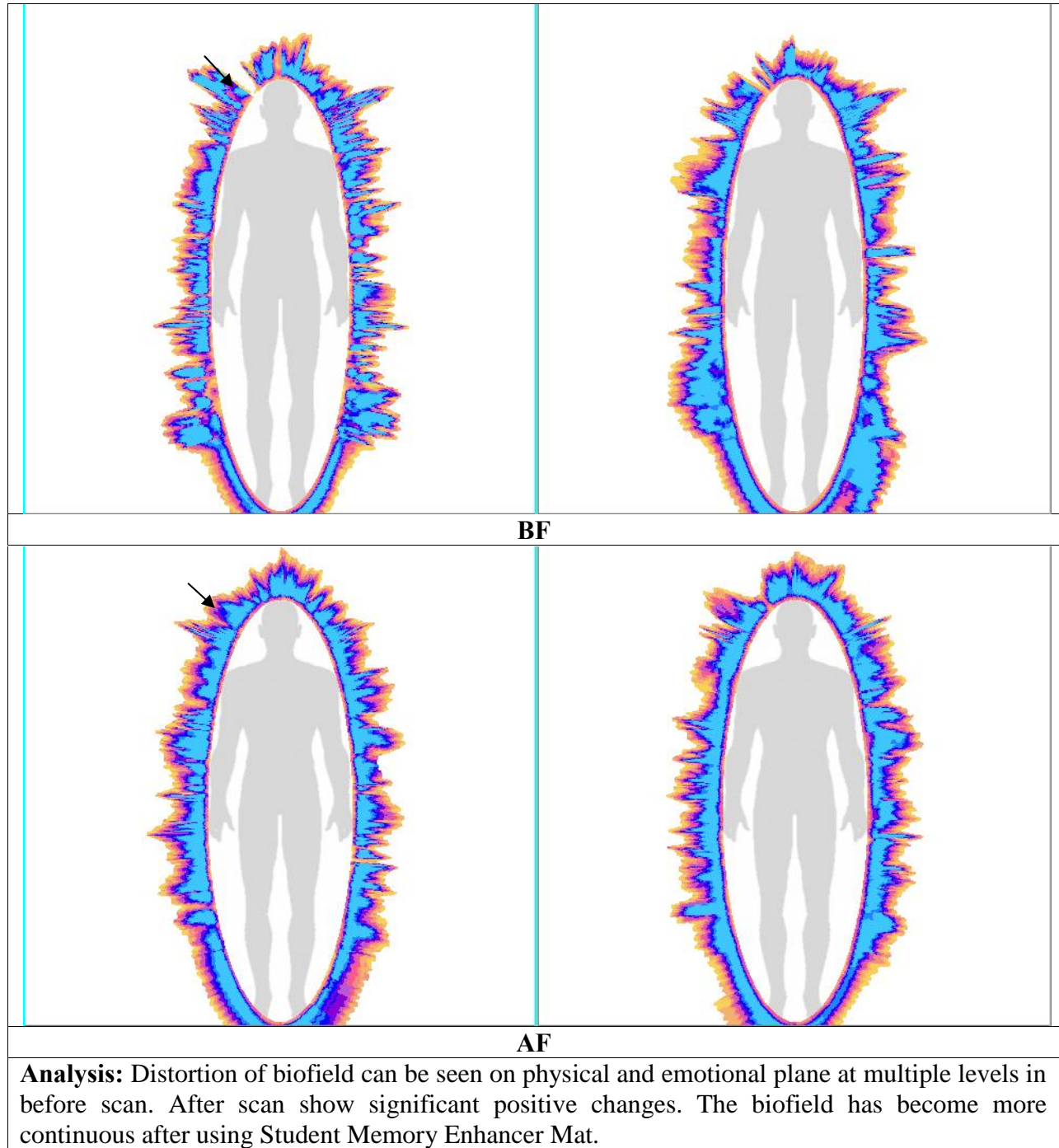
AF

Analysis: No remarkable changes can be seen in the after scan.

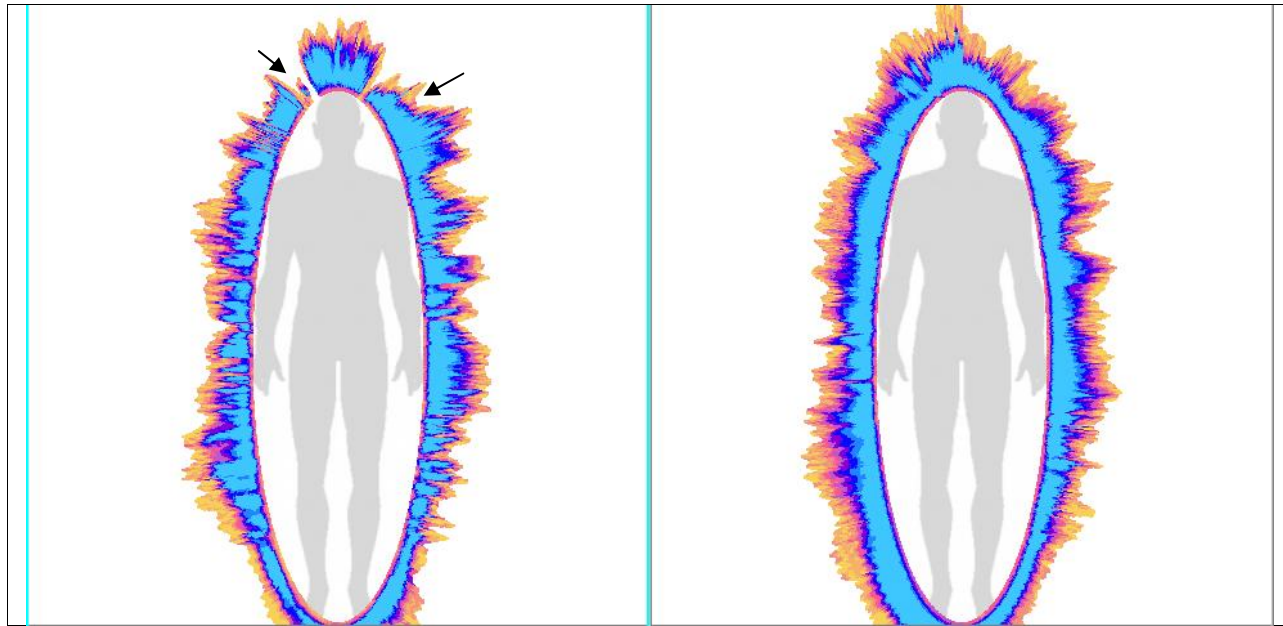
Case 18 (48864)



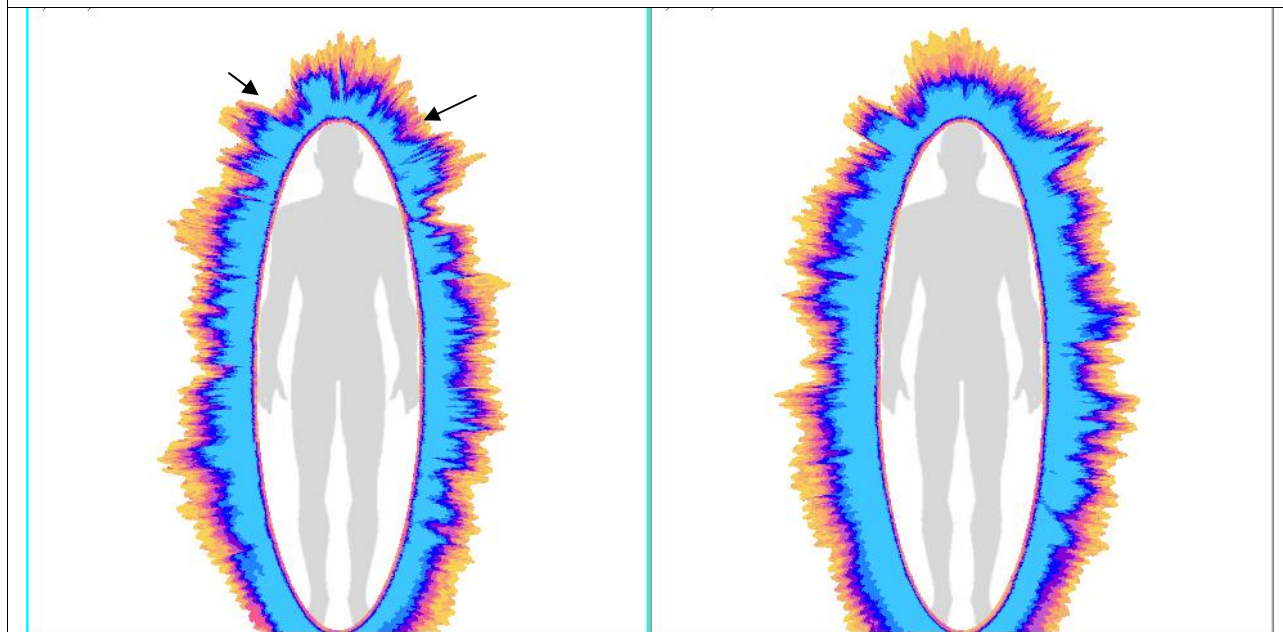
Case 19 (36979)



Case 20 (51547)



BF



AF

Analysis: Distortion of biofield can be seen on physical at crown chakra level in before scan. After scan show significant positive changes. The biofield has become more continuous after using Student Memory Enhancer Mat.

Disclaimer

The interpretation of the Biofield Viewer (BV) and Electro Photonic Imaging (EPI) has to be done by certified analyst who is a licensed medical practitioner. The systems do not replace any existing medical examination and is not intended to be used for medical diagnosis, therapy or treatment of diseases. Results are seen and interpreted at an energy level only for BV and EPI. However The Centre for Biofield Sciences (CBS) assumes no liability arising from endorsements and sale of the product by the clients.