ANALYSIS OF EMOTIONAL PRESSURE'S EFFECT ON HEALTH USING BIO ENERGY

R Dasa Sathyan
MCA, PG Scholar
Department of Computer Science
CHRIST (Deemed to be University)
Bangalore, Karnataka
dasasathyan@gmail.com

Dr. Anita HB
Assistant Professor
Department of Computer Science
CHRIST (Deemed to be University)
Bangalore, Karnataka
anita.hb@christuniversity.in

ABSTRACT: Staying healthy is very important. Nowadays due to many factors that are either internal or external, human health is declining. Many researchers have analysed the impact of stress on human health. The proposed work is an analysis of the relationship between human organs balance and emotional pressure. The emotional pressure and organs balance data is collected using Bio Photon emission captured by Bio–Well camera. In this work, bio photon emissions of 20 persons are considered and their stress levels are acquired using a standard questionnaire. The results show that there is a strong correlation between a person's stress level and his/her organ balance. The stress level obtained from the questionnaire matches with that measured by the Bio–Well camera. The stress level has an impact on organ balance which is obtained from the Bio–Well camera.

Index Terms – **Biophoton, Ultraphoton, Data Analysis, correlation**

I . INTRODUCTION

Health of citizens contributes to the productivity and physical capital of the country. Health and nutrition accelerate economic development and (cause) lead to more equality and more equal distribution of economic gains. There is a strong association of the economic growth of a country with its population's health. Growth in economy means that households can spend on health and nutrition of their family members [1]. Hence taking good care of the health of its citizens is very important for a nation's growth. There are various alternate treatments are currently being used.

Ayurveda is an alternate medicine that is very popular in the Indian sub-continent and it's difficult to even trace its origin as it has been in use for ages. Homeopathy is a kind of alternate medicine founded in 1796 and is very popular in India and a few European countries like Germany, France, Switzerland and United Kingdom. Acupuncture and acupressure are other alternate therapies that are widely used in China. Yunani is also an alternate therapy founded and used by Persians and Arabs. Its popularity increased in India during the Mughal Empire in the 13th Century.
Bio Photon emission is another alternate therapy used by around 150 institutions in United States in the name of Aura photography.

In the proposed work the correlation between the stress level based on the questionnaire and photon emission is examined and also the correlation of organs balance with the emotional pressure of a person using bio-photon is analyzed. The bio - photon emission data is obtained through a Bio–Well camera. All humans possess an invisible aura around them that is not visible to naked eye. This aura, called the coronal discharge is captured using the Bio-Well camera. The Bio-Well camera data can be used to predict health issues of a human being based on the emission of photons.

Humans can prepare in advance rather than fighting back health issues after getting affected by them. The Bio Photon images give an opportunity to stay in health and look after it in a better way. In the future, combination of different methods like Allopathy, Homeopathy, Photon Emission and Ayurvedic can be used for analysing the health status of the people.This type of meta medicine helps the society a lot.

Emotional Pressure: Emotional pressure is a psychological issue that is caused either by an external force like the environment or by an internal force like injury, illness, anxiety etc. Emotional pressure is caused by the excessive release of the cortisol hormone which is regulated by the Pituitary gland situated in the Human Brain which also has an impact on the blood Sugar level

[2]. The proposed work discusses the impact of emotional pressure on human health. There are six emotional pressure parameters that are usually taken into consideration namely Calm, Optimal, Anxiety, Stress, Heightened, High out of which only Optimal, Anxiety and Stress are considered here.

Bio-photon: Bio Photon images are emissions of ultraviolet light captured in a low light environment using a special device. These Bio Photon images are used to indicate the state of the biological tissues of living organisms like human beings, animals, plants etc. There are various ways through which the Bio Photon images can be captured like photomultipliers or special cameras like Bio-Well cameras designed specifically to capture those images.

Every organism in the universe needs energy for its functionality. The Bio–Well camera generates a report with Energy flow throughout the body, Energy Reserves in Human organs, Energy balance from left side of the body to the right side of the body, Alignment of Chakras, Organs Balance, Yin – Yang meridian, Biorhythms curves(which represent the variations of the physical, emotional and intellectual cycles of human energy during a month). The sample image of the Energy fields of a human being is shown in the Fig 1.1.
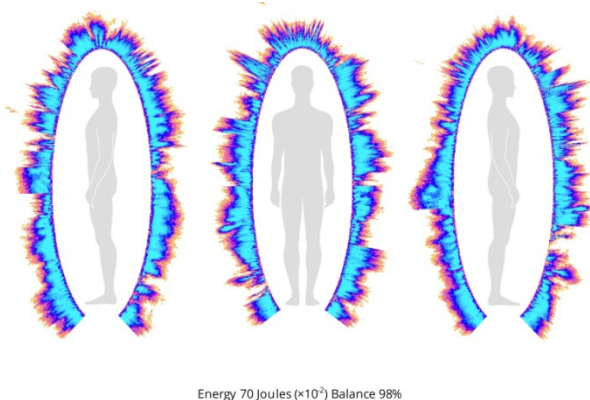

Energy 70 Joules (×10²) Balance 98%

Fig 1.1 Energy fields of a human

Any dip in any of the Organs of human body states that the flow of energy to that particular organ is low. Since energy is an important factor that helps a human active, a dip states that the organ is not functioning at its fullest extent. The energy flow for organs is depicted in the report generated by the camera in a separate section called Energy Reserve. The person has to take care of that particular organ which has a low energy flow. The sample image of energy reserve in a human being is shown in Fig 1.2.
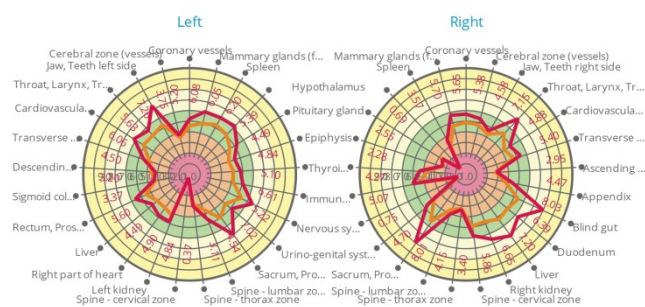

Fig 1.2 Energy Reserve of Human Organs

The data of organs balance and emotional pressure are considered for the proposed analysis.

II. LITERATURE REVIEW

Numerous research works have been done on Bio Photon images and their effects on Living Organisms like human beings and animals and non-living organisms like rice, radish etc. Bio electrography treatment was given to 247 patients suffering from bronchial asthma and a scan of these patients compared with that of 56 healthy people reveals that bio electrography can effectively solve medical issues and allergies.

In Chinese, Bio – photon is termed as Qi which is the equivalent of the Indian prana[4]. The researcher states that there is an exchange between Qi/prana and bio-photons; the photons in the body which take part in biocommunication and signalling. Since bio-photons are a result of oxidative processes, there could be complex interrelations between oxidative processes, bio-photons, and Qi energy.

Electrophotonic Imaging(EPI) also known as Gas Discharge Visualization(GDV) is one of the instruments used to capture the internal activities of human beings[5]. The author scanned 32 males and 19 females all of whom have undergone meditation for 5 days. EPI data was captured before and after the intervention. The data was analyzed using IBM SPSS Neural network software. The author has concluded that meditation has a significant impact on the EPI data from the human body.

The author[6] scanned 5 People before and after meditation for the analysis of photon emission. Photon count statistics of the optical radiation field on the hands and the forehead due to meditation in order to know its effect is examined. Then the scan was conducted. The author concluded that there is a significant change in energy before and after meditation.

Stress is the main reason for chronic diseases and patterns of ultra weak photon emission are a measure of the oxidative status which in turn is responsible for

chronic diseases[7]. The author has concluded that radical oxygen species related diseases would foster further biomedical applications of ultraweak photon emission.

The author[8] had Ultra-weak Photon Emission (UPE) measurement done on 50 people with Type 2 diabetes and 60 healthy people. Then on the results, few statistical parameters like Mean, Kurtosis and Skewness calculated. Upon analyzing the results it is found that photon signals of people with type 2 diabetes are significantly different from those of healthy people. The author states that UPE can be used as a diagnostic technique to monitor the health of human being [9].

Photon Emissions are produced when molecules in an electronically excited state decay to a stable ground state. Such emissions from human beings vary due to environmental stresses and diseases[10]. The researcher states that photon count increases when N-acetylchitohexaose is induced.

The author [11] measured the UPE of 20 healthy people and 10 people who were suffering from cold using photomultiplier tubes. This showed the Bio photon emission to be from 455 nm to 550nm for healthy people and from 550nm to 610nm for people suffering from cold. Results showed that photon emission can be used to diagnose other diseases as well.

The author chose a woman suffering from multiple Sclerosis. The subject was under color puncture treatment. Bio-Photon scan was taken over a period of 9 months and the resulting signals were quantified as Coherency Index. The color puncture treatment changes the Coherency Index after the treatment. The change in the index is sustained over a longer period after many sessions of the treatment [12] .

Emotional pressure and BP create an impact on human decision making. An analysis of the risk perceptions of 92 healthy people and those with a high BP shows that people with higher BP levels report increased risk taking behaviour [13].

Emotional pressure doesn't just impact humans. All living organisms have emotional pressure. Emotional pressure has been identified for 14 normal and trained dogs, 4 of which have been under constant daily observation for over two and a half years[14]. During the course of the scan the 4 dogs have been under constant surveillance for 2 and a half years by the researcher. During those years the dogs have been tested under accidental or planned situations which caused an emotional pressure.

According to Gardiner and Osborn [15], the chakras (energy centres) are described as metaphysical counter parts to the endocrine glands. The chakras (energy centres) are linked to the nerve plexus along the spinal cord, as per the description of Sturgess. If the alignment of the chakras is right then the human body is free from problems including those related to organs balance, emotional pressure, energy levels etc. If the chakras are improperly aligned then the human body is not in proper condition. There are different ways to keep the chakras properly aligned.
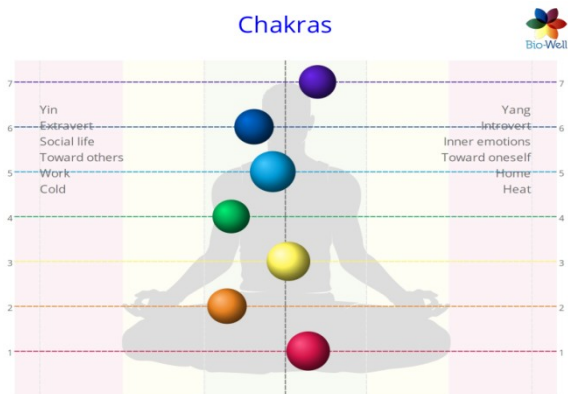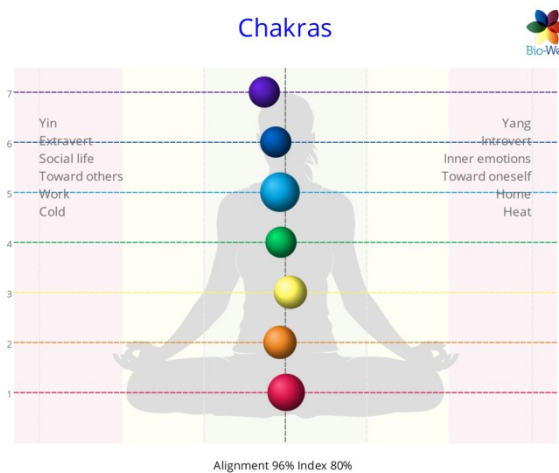

Fig 2.1 87% alignment of Chakras

Fig 2.2 96% alignment of Chakras

A study was conducted on 32 males and 19 females using a Bio Well scan. They were then asked to meditate for 5 days. EPI data was captured again after the intervention. The data was analyzed using IBM SPSS Neural network software. Meditation has a major impact on the human body. It helps in reducing stress, controlling anxiety, promoting emotional health, decreasing blood pressure, aligning and proper functioning of chakras and many more.

III. IMPLEMENTATION

A. Data Collection

Data is collected using different stages as mentioned below:
i) Questionnaire
ii) Bio-Well camera images

In the first step the questionnaire [16] is used to analyse the stress levels of the 20 students.

In the second step, photon Emission details using Bio-Well camera of the students are obtained who are of similar ages. The scan is conducted using a specialized camera called Bio-Well camera specially designed for capturing Bio-photon images.

The data is collected through a scan conducted at 1000 petals, a center situated in 900, 1st B Cross, Kalyan Nagar, Indira Nagar 1st Stage, H Colony, Indiranagar, Bengaluru, Karnataka-560038. The scan is carried out at the center by taking people in batches for 4 days. In this center, a lot of research work is being carried out for better understanding of how science and spirituality go hand in hand.

B. Methodology

Emotions of 20 people at random were considered for analysis. First, the analysis is done using a questionnaire with 20 questions prescribed by Psychologists. The questionnaire helps to verify the reliability of the results from the Bio-Well camera. The output of the questionnaire is given in the figure 3.1.
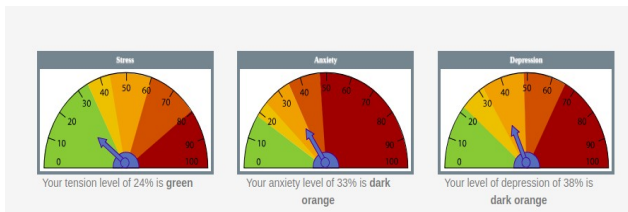

Fig 3.1 Stress level indication from the questionnaire

The Bio-Photon scan is taken for the same set of people. The results from the questionnaire match those from the Bio-Well scan by more than 85%. Then the emotional pressure and the human organs balance data are correlated using R-studio. The algorithm used to identify Pearson's correlation is:

cor(Emotional Pressure,Organs Balance)

The correlation value is -0.7028813 which is a negative correlation, implying that an increase in Emotional Pressure decreases the balance of human organs and a decrease in emotional pressure increases the balance of human organs. Another parameter which increases the level of confidence on correlation value is p-value. The p-value is identified using the algorithm:

cor.test(Emotional pressure,Organs Balance)

The p-value obtained is 0.00114. The lower p-value implies that the correlation is quite good. When P-values reach a level less than 0.001 or 0.0053 the threshold values indicate a strong relationship [17].

Then a scatter plot was plotted between the 2 variables. Again the negative relationship is visualised in the plot below.

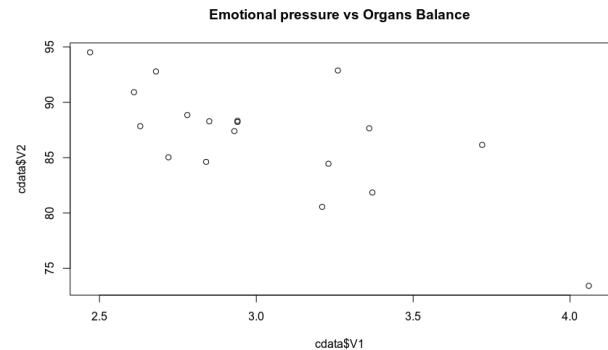*plot(Emotional pressure,Organs Balance)*

Fig 3.2 Plots

A simple regression analysis is further computed and the loadings (coefficient of the slope and intercept) are observed. The findings are displayed below.

(Intercept)	Emotional Pressure
112.409895	-8.418464

So when there is no emotional pressure, it is found that the ideal organ balance is at a high of 112.41. From then on every unit of emotional pressure increase results in 8.42 units of decrease in the organ balance suggestive of a steep decline.

The regression line is plotted using the following R code:

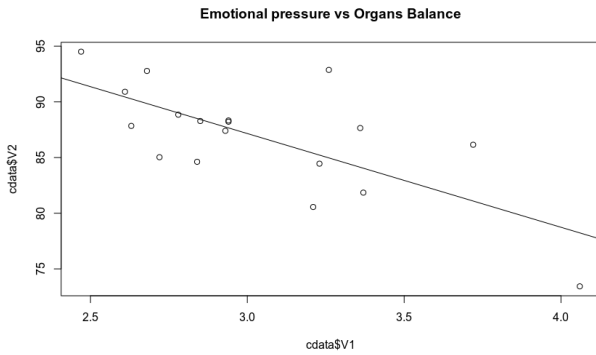*abline(lm(Organ Balance ~ Emotional Pressure),cex = 1.3,pch = 16,xlab = "EP",ylab = "OB")*

Fig 3.3 Regression (OLS) Plot

Further since the sample size is very limited, bootstrapping tests are conducted to test the stability of the correlation obtained in the sample.

Bootstrapping is a process to re-sample the data, usually by sampling rows (with replacement) from the original data to obtain new pseudo-samples of size of the original sample. For every psuedo-sample generated the correlation of the sample is computed. The set of all these correlation is then analyzed and the stability of the sample population is then ascertained.

The boot package is used to conduct the bootstrapping test in R. The source code is shown below.

```
mycor <- function(x,ind) cor(x[ind,])[1,2]
bcor <- boot(cdata,mycor,R=999)
hist(bcor$t,n=100,main = "Histogram of sample
correlation")
abline(v=bcor$t0,col=6)
```
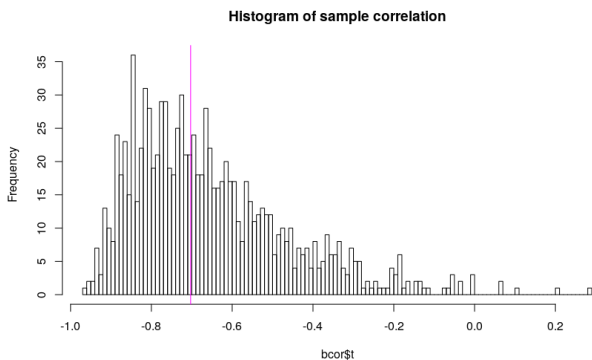

Fig 3.4 Histogram of Sample Correlation of 999 pseudo-samples

The sample correlation is at -0.7 (see magenta AB line in Fig 3.4). The right tail of the distribution is "fat" suggestive of the limited number of observations in the sample. The distribution parameters are mentioned below.

```
> mean(bcor$t)
[1] -0.6544158
```

```
> sqrt(var(bcor$t))
[,1]
[1,] 0.1954238
```

The standard deviation of the correlation is high again confirming the hypothesis.

Also the number of re-samples are increased and the histogram is again plotted in figures 3.4 and 3.5.
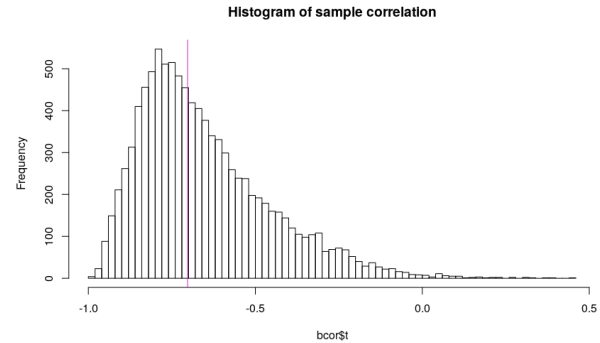

Fig 3.5 Histogram of Sample Correlation of 9999 pseudo-samples

The profile of the correlation appears stable as the number of psuedo-samples are increased to 10,000 .

IV. CONCLUSION

The correlation report has resulted in 70% of negative correlation between Emotional pressure of the human body and the balance of organs with an optimum p-Value of 0.00114. This has been proved using regression analysis. Further, tests are conducted to test the stability of the correlation. It is shown that the correlation profile has a wide right tail suggestive of limited sample size.

It can be concluded that, a change in the emotional pressure has a significant impact on the balance of organs. Whenever emotional pressure rises, organs balance drops down and vice versa. It is important for humans to take proper care of emotional pressure that is caused either from internal or external factors. From this work it is clear that the Bio-Photon emission can be considered as an alternative diagnostic technique for patients looking for a second opinion. Further more, with the report generated from the scan, potential future diseases can also be predicted. Research work can further be carried on to predict the health issues that can arise in future by analysing the energy flow in the human body. Organs which can have problems in the future will have a decrease in their energy flow and their energy reserve. Patients can hence look after the organs with issues and take precautionary measures to avoid serious health related problems in the future.

REFERENCES

[1] Simon Lange and Sebastian Vollmer, "The effect of economic development on population health: a review of the empirical evidence".

[2] Hans Selye, "The physiology and pathology of exposure to stress".

[3] R.Alexandrova,G.Fedoseev,Korotkov, N. Philippova, S. Zayzev, M. Magidov, I. Petrovsky "Analysis of the Bioelectrograms of Bronchial Asthma".

[4] TM Srinivasan, "Biophotons as Subtle Energy Carriers".

[5] Shiva Kumar K, Srinivasan T.M, Guru Deo, VenkataGirikumar P and Nagendra H.R. "International Journal of Current Medical and Pharmaceutical Research".

[6] Eduard P.A. Van Wijk, John Ackerman, Roeland Van Wijk, "Effect of Meditation on Ultraweak Photon Emission from Hands and Forehead".

[7] Roeland Van Wijk , Eduard P A Van Wijk, Fred A C Wiegant & John Ives, "Free radicals and low-level photon emission in human pathogenesis: State of the art".

[8] Meina Yanga, Wenyu Ding, Yanli Liu, Hua Fan, Rajendra P. Bajpai, Jialei Fu, Jingxiang Pang, Xiaolei Zhao and Jinxiang Han, "Ultra-weak photon emission in healthy subjects and patients with type 2 diabetes: evidence for a non-invasive diagnostic tool".

[9] John Ives, Eduard van Wijk, Namuun Bat, Cindy Crawford, "Ultraweak Photon Emission as a Non-Invasive Health Assessment: A Systematic Review".

[10] Anshu Rastogi, Pavel Pospísil, "Effect of exogenous hydrogen peroxide on biophoton emission".

[11] Meina Yang, Jiangxiang Pang, Junyan Liu, Yanli Liu, Hua Fan and Jinxiang Han, "Spectral discrimination between healthy people and cold patients using spontaneous photon emission".

[12] Hyun-Hee Jung,Joon-Mo Yang, Won-Myung Woo, Chunho Choi b Jong-Soo Yang, Kwang-Sup Soh, "Year-long biophoton measurements: normalized frequency count analysis and seasonal dependency".

[13] James A. McCubbin, PhD, Aaron Nathan, BS, Melissa A. Hibdon, BS,Anastasia M. Castillo, BS, Jack G. Graham, BS, Fred S. Switzer, III PHD, "Blood Pressure, Emotional Dampening, and Risk Behavior: Implications for Hypertension Development".

[14] C. M. WILHELMJ, M.D., TERENCE F.-McGUIRE, M.S., JOHN McDONOUGH, M.S, E. B. WALDMANN, M.D., and H. H. McCARTHY, M.D, "Emotional Elevations of Blood Pressure in Trained Dogs".

[15] Philip Gardiner, Gary Osborn, "The Shining Ones: The World's Most Powerful Secret Society Revealed".

[16] https://www.15minutes4me.com/free-online-test-stress-anxiety-depression-burnout/

[17] Chandra, J.,M. Nachamai and Anitha S. Pillai, "Correlation Based ADALINE Neural Network for Commodity Trading".