

Yogic Perspective on Cancer

Pradeep B. Deshpande^{1,*} and James P. Kowall²

List of Collaborators

Dharamveer Jain³, Vibha Jain⁴, Mahendra Patel⁵, Uday M. Kayarker⁶, Mahesh Agarwal⁷, Abraham Joseph⁸, Geetha Joseph⁹, Rukmaiah Bhupalan¹⁰, Leela Bhupalan¹¹, Babu Sharma¹², Anand Gupta¹³, Atefeh Gupta¹⁴, Chitra Ram¹⁵

¹Professor Emeritus of Chemical Engineering, University of Louisville, & Six Sigma and Advanced Controls, Louisville, KY 40241 USA; *Author for correspondence.

²MD Neurology, Internal Medicine, PhD Theoretical Physics, Independent Researcher, Suburban Eugene, Oregon, USA.

³MD Oncology, Breast Health), University Medical Associates. Louisville, Kentucky.

⁴MD Pathology, First Urology, Louisville, Kentucky.

⁵MD Nephrology, Elizabethtown, Kentucky.

⁶MD Anesthesiology, Please provide work affiliation.

⁷MD Anesthesiology, Retired, Louisville, Kentucky

⁸MD Cardiology, Louisville, Kentucky.

⁹MD Oncology, Louisville, Kentucky.

¹⁰MD Neurology, Louisville, Kentucky.

¹¹MD Oncology, Louisville, Kentucky.

¹²MD FRCS England, Louisville, Kentucky.

¹³MD Gastroenterology, Louisville, Kentucky.

¹⁴MD Radiology, Louisville, Kentucky.

¹⁵MD Radiology, Louisville, Kentucky.



Eleven of the Fifteen Collaborating MDs in a Special Session on July 15 2017

ABSTRACT

A yogic perspective on cancer is presented. The yogic perspective explains that we are all vibrational creatures and that the vibrational characteristics are the primary human attribute that determines our physiological and psychoemotional state. A scientific device based on the Gas Discharge Visualization (GDV) principle described allows us to estimate our vibrational characteristics, dubbed as our photonic signature. The process of meditation is suggested to be effective at improving our vibrational characteristics. The before-and-after GDV measurements of the first coauthor pursuant to a meditation session is presented that offers corroborative evidence of the benefits of meditation in improving our vibrational characteristics. The explanation of the yogic perspective, measurement of our vibrational characteristics, and the process of meditation to restore them are suggested to have a potential in the prevention and cure of cancer. It is hoped that the paper will serve as an impetus for further research in this area.

SANCHET KARMA

American Medical Association says that the root cause of eighty percent of all diseases is stress but the yogi says, the root cause of all diseases is stress. Negative emotions (anger, hatred, hostility, resentment, frustration, fear, guilt, sorrow, etc.) lead to stress but positive emotions (unconditional love, kindness, empathy, compassion) do not. Dramatic illustrations of the impact of positive and negative emotions may be found in the video clips in References [1, 2].

To further explain, human beings have trillions of cells which have a nucleus, a cytoplasm, and a cell wall. In the nucleus, there are forty-six chromosomes. We inherit these chromosomes from our parents: 23x,x from our mother and 23x,y from our father. They in turn inherit their chromosomes from their parents, who inherit them from their parents, and so on. Thus, there is a clear link of ourselves to our ancestors. We already know that some of our physiological traits are inherited from ancestors but we may also inherit some of the psychoemotional traits. Where do the negative emotions come from? The yogi says, what happens in this life is dependent on our past lives (interpret this to mean what we inherit from our ancestors through the chromosomes; need not subscribe to reincarnation) and by our own willful actions from the time we were in our mother's womb to adolescence when we had little or no control, to our current age. In Sanskrit, the inherited and self-generated negative emotions go by the name *Sanchet Karmas*. Sanchet karmas are purported to be lodged in the first four of five energy sheaths: (1) The physical body, (2) Life-force sheath, (3) Mind sheath, (4) Causal Sheath, and (5) Blissful Sheath. Disturbances in any of these four energy sheaths lead not only to diseases but also to a host of other problems in life. There

are only two ways to rid ourselves of Sanchet Karmas, either to suffer from them, a process which goes by the name *Prarabddha Karma* in Sanskrit, or to eliminate them and replace them with positive emotions. The latter is a hypothesis that can be tested. Finish medical researchers have shown how deeply the emotions are embedded in our consciousness. For their study, they recruited 700 volunteers, roughly half of them from Eastern cultures and the rest from the West and were given a blank silhouette (labeled Neutral in Figure 1) to color specific emotions. The researchers discovered to their amazement that definite patterns of colors emerged for different emotions as depicted in Figure 1. Their study was published in the Proceedings of the National Academy of Sciences-US [3].

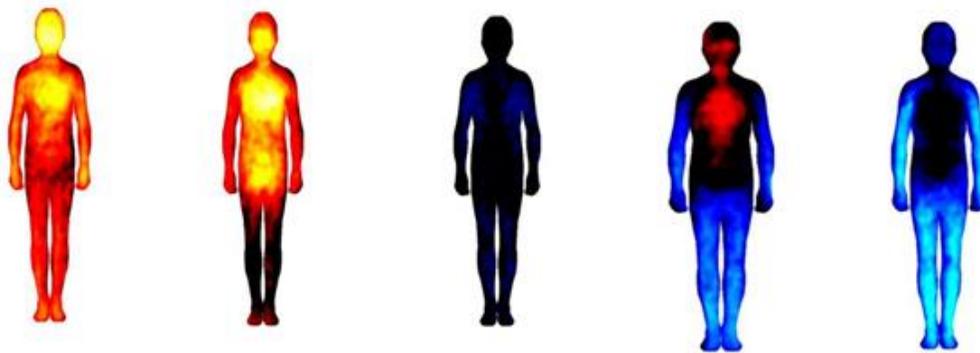


Figure 1. Seven Hundred Volunteers Color Different Emotions

WE ARE ALL VIBRATIONAL CREATURES

The Sanchet karmas are related to our vibrational characteristics which in turn has a bearing on health. To explain, if we breakdown our cells further into even smaller parts, we will find that they are made up of atoms. Scientists suggest that only 0.0001% of the body volume is required to house for all the atoms in the human body. So, what is in this empty space? And, what is the purpose of the empty space? One plausible answer appears to be vibrations, and the characteristics of these vibrations is what determine our health and wellness. To elaborate, atoms are not solid objects. They have protons and neutrons in their nuclei and electrons orbiting them. So, a question arises: what characteristic of an atom gives the specific character to matter? For example, why is Gold, Gold? Or, why is Iron, Iron? The answer is, vibrational characteristics of the specific atomic configuration (number of protons and neutrons in their nuclei and electrons orbiting them). Similarly, since the cells are made up of atoms, the vibrational characteristics of the specific cellular configuration is what determines the cellular structure, which in turn determines if a cell is normal or not. The specific vibrational characteristics of the cells determine our physiological and psychoemotional state. Now, vibrations can be thought of as light, not necessarily visible light, with unknown frequencies along the entire electromagnetic spectrum and hence the name, light-

energy. Thus, the vibrational characteristics, or light-energy, can be thought of as photonic signature and it is unique for every human being. This is the rationale for the observation, we all are vibrational creatures and the foregoing discussion explains the link of our vibrational characteristics to Sanchet Karmas.

Modern Physics Perspective [4]. The basis for atomic and molecular vibrational modes is the standard model of particle physics, which is based on quantum field theory, specifically, non-abelian gauge theories, which with the Kaluza-Klein unification mechanism of extra compacted dimensions of space are unified with Einstein's field equations for the space-time metric, and so these atomic and molecular vibrational modes correspond to the vibrational aspects of the geometry of space-time. The holographic principle teaches that these geometrical space-time vibrational modes reduce down to fundamental bits of information encoded on a bounding surface of space, which is an event horizon that is ultimately a cosmic horizon which arises with the expenditure of dark energy or the exponential expansion of space, and this in modern cosmology, is understood as the causal factor for the big bang creation event. So, it would seem that the origin of the vibrational modes within each of us individual creatures originates from the creation of the universe itself. Additional details may be found in Reference [4].

CAPTURING AND ANALYZING HUMAN VIBRATIONS

Unbeknownst to us, we are constantly producing vibrations that are reflective of our physiological and psychoemotional state. If we can only find a way to amplify, capture, and analyze these vibrations, perhaps we can estimate emotions and that will allow us to look for a process to empower us with positive emotions at the exclusion of negative emotions and that in turn will rectify our vibrational characteristics and the photonic signature relieving us of our Sanchet Karmas and the diseases. With funding from the National Science Foundation and the US Airforce with additional support from major US corporations [5, 6], Computer Science and Electrical Engineering researchers at MIT developed a wireless device which goes by the name EQ Radio to capture and analyze these vibrations. The wireless device sends RF signals to the subject and captures and analyzes the reflected signals (see Figure 2(a)) with a machine-learning algorithm to determine the heart rate, heart rate variability (HRV), and respiration rate from which the subject's emotions are estimated, the researchers say at an accuracy of 87%. These findings are supportive of the earlier work of other researchers who had found a link between emotions and heart rate variability as depicted in Figure 2(b)[7].

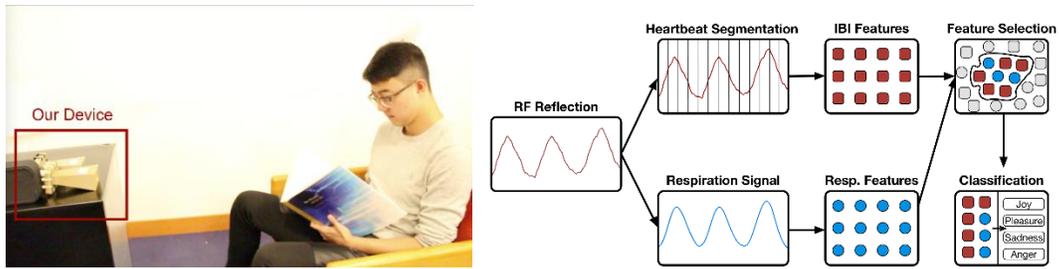
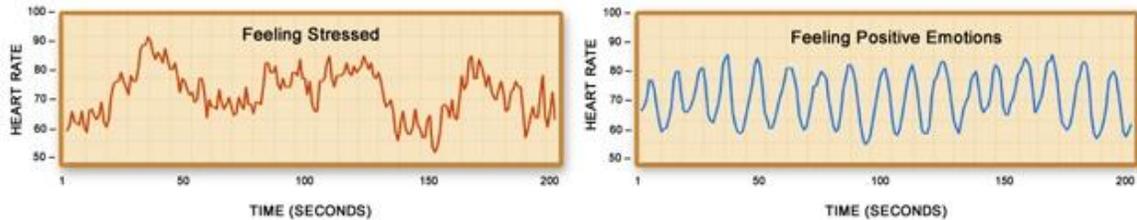


Figure 2(a). MIT's EQ Radio



**Figure 2(b) Influence of Emotions on Heart Rate and Heart Rate Variability.
(Courtesy, Dr. Rollin McCraty, Institute for HeartMath, Boulder Creek, CA)**

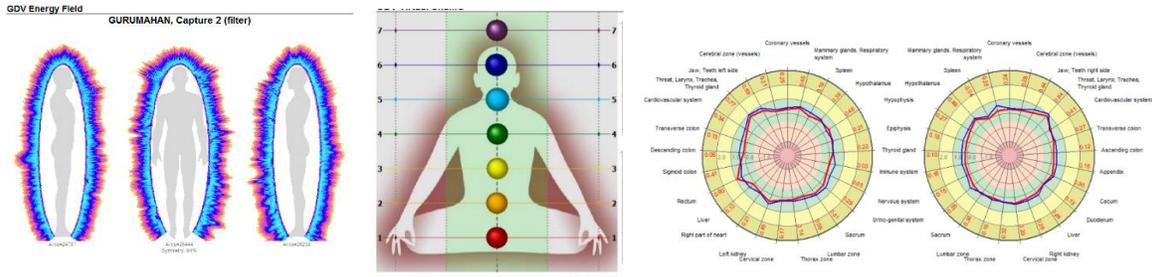
If the vibrational characteristics of the cells (our photonic signature) are the basic attribute of human beings, then, autonomic functions such as heart rate, HRV, respiration rates, etc., must be its subsets. Therefore, it is more appropriate to find a way to measure the photonic signature, light-energy. The light-energy cannot be measured directly. It must be inferred from secondary measurements. Over fifteen years ago, a Russian scientist developed a device to estimate the photonic signature of humans using the principle of gas discharge visualization (GDV) [8]. Here, instead of RF signals as in MIT research, a harmless electrical input is applied to all ten fingers (one at a time), placed on the glass electrode of the GDV device connected to a digital computer with a USB cable as shown in Figure 3. The finger's response to this stimulus is a burst of photons that are captured by the software. The light-energy characteristics of the photonic discharge (pixels - intensity, area) so captured are compared with the data for tens of thousands of subjects in the database to estimate the physiological and psychoemotional state of the subject at a high confidence level. The measurement is painless, noninvasive, and takes only a couple of minutes to complete. Suffices to say, the inferential measurement of photonic signature is correlational in nature and therefore, unlike an MRI or a CT scan, the possibility of outliers cannot be ruled out. The GDV device was approved by the Russian Health Ministry for use as a routine medical diagnostic device in Russian hospitals and doctor's offices over fifteen years ago [9].



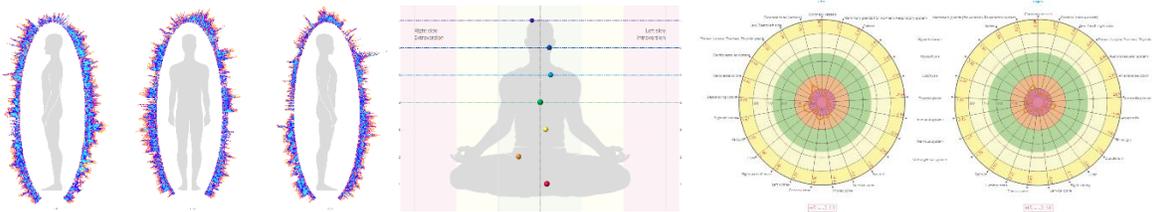
Figure 3. GDV Device Setup

The GDV device estimates the overall energy of the subject, emotional stress, health status, energy reserve, Yin Yang, and the state of chakras from the ancient Indian system of Ayurveda all in terms of energy in Joules. In yogic parlance, there are seven energy centers which go by the name *chakras* whose energy levels in Joules as indicated by their sizes together with their dis-alignment from the central vertical line as a percentage, determine their strength. The software specifies the target values for the chakra energies in terms of size and alignment (5 Joules and 100%, respectively). The state of these chakras determines the state of the energy sheaths mentioned earlier which in turn determines our Sanchet Karmas and the vibrational characteristics. From ancient times, the chakras are associated with specific colors: Starting from the bottom, Muladhar (Red; lowest vibrational frequency), Swadishthan (Orange), Manipur (Yellow), Anahat (Green), Vishuddhi (Blue), Ajna (Indigo), Sahasrar (Purple/Violet; highest vibrational frequency).

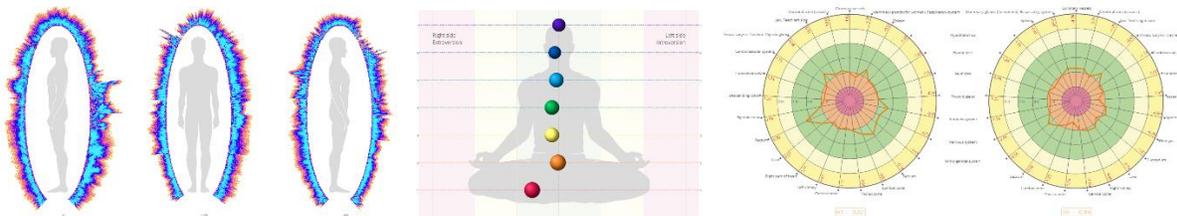
The farther away the energy parameters are from their targets, the more problematic is the physiological and psychoemotional state is. Fortunately, physiological changes occur rather slowly while psychoemotional changes manifest themselves quickly and this allows for the assessment of the efficacy of whatever we are doing to rectify our vibrational characteristics and the energy field. Figure 4(a) - (c) depict the energy diagrams of a yogi and two subjects suffering from stomach cancer and prostate cancer, respectively.



(a). A Yogi



(b) Stomach Cancer Patient (Courtesy, Konstantin Korotkov)



(c) Prostate Cancer Patient (Courtesy, Konstantin Korotkov)

Figure 4. Energy Diagrams of a Yogi and Cancer patients

Our light-energy characteristics are the first to be affected well before the symptoms of the disease ever appear in the physical body. Thus, if the health status diagram appears problematic but the individual feels apparently healthy at the moment, it may be signaling of future health problems. Therefore, the light-energy measurements may offer prospects for predictive diagnosis [10]. As examples, Figures 5(a) and (b) depict the energy diagrams of an Oncologist and a Nephrologist. Both are apparently healthy individuals active in their respective practices. Notice that the energy field is broken and the chakras are smaller than their targets and quite dis-aligned. Such a state calls for intervention discussed in the ensuing paragraphs.



Figure 5(a) An Oncologist



5(b) A Nephrologist

Figure 5. Energy Diagrams of Two Physicians

HOW TO RECTIFY OUR VIBRATIONAL CHARACTERISTICS

We have no awareness of our vibrational characteristics nor can we do know how to manipulate them consciously any more than we know how to manipulate autonomous functions such as heart rate, respiration rate, etc. Yogis assert that the required impact has to be made through the central nervous system (brain, spine) on the autonomous functions with meditation. Here, we provide a scientific explanation of how this may be coming about [11]. We know that the central nervous system (CNS - brain, spinal cord, and nerves) governs the functioning of various organs and systems. Eons ago, yogis came up with an ingenious scheme which used languages to produce the intended impact on the CNS. Taking Sanskrit as an example, there are thirty-three plus alphabets and not coincidentally, there are thirty-three vertebrae in the spine. Also, not coincidentally, the meditation process cites thirty-three presiding deities to meditate upon. The religious minded may take the deities literally but their stories can also be construed as metaphorical. According to the stories, each deity is charged with destroying specific demons that are identifiable with specific negative emotions such as anger, hatred, hubris, etc. (For example, Madhu, Ketab; Shumbh, Nishumbh; Raktabeej; Mahishashur). Equivalently, the deities can also be thought of as energy centers of which seven were cited earlier. The alphabets must be suitably combined in the form of short mantras which when recited correctly are expected to produce the intended effect on the vertebrae, and through the vertebrae, various organs and systems. Proper diet, physical and pranic (breathing) exercises are supportive of the meditation practices. These ideas are illustrated in Figure 6.

The links suggested here are purely for illustrative purposes. Reference [10] provides examples of several mantras and their impact on the energy field.

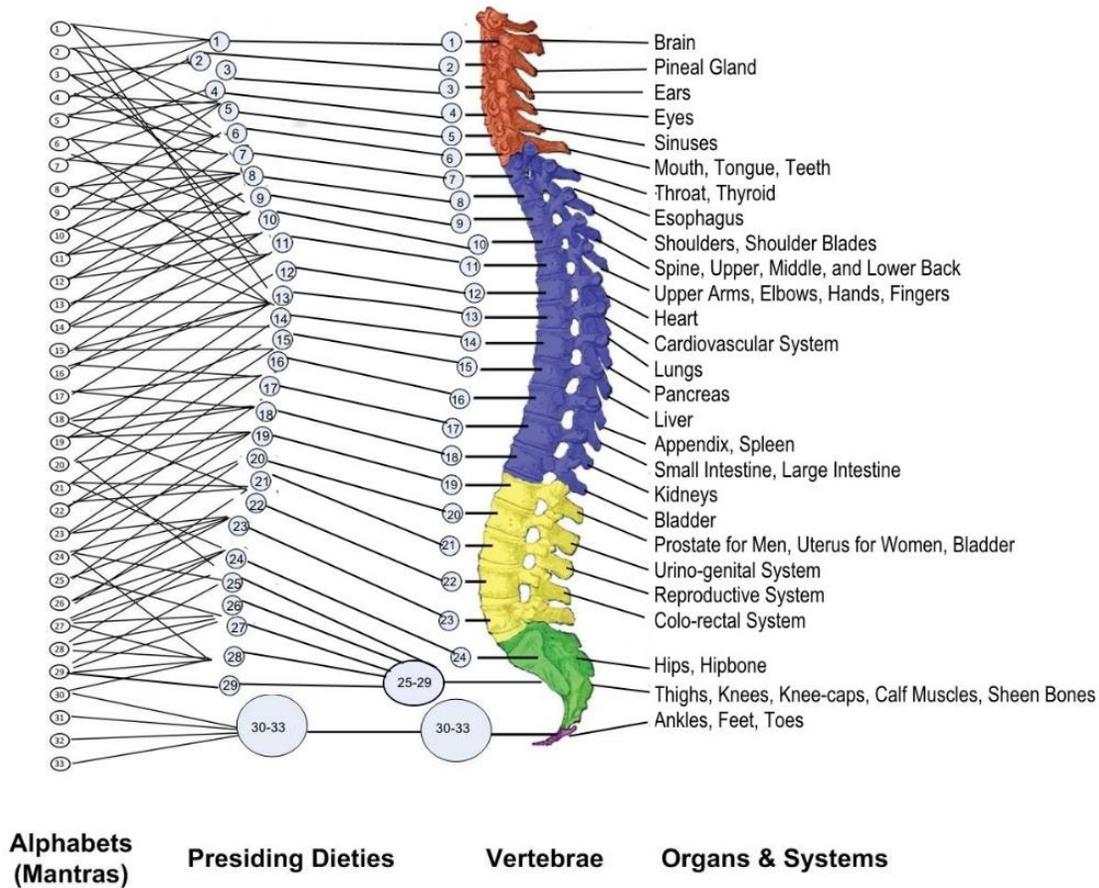


Figure 6. Linkages of Alphabets to Organs and Systems
(The specific linkages shown are for illustrative purposes only)

As supportive evidence, Figures 7(a) and (b) depict the energy diagrams of the first author pursuant to a meditation program of Baba Shivanand Ji in India not long ago. The YouTube video clip interview Baba Shivanand Ji gave to a TV personality provides additional information [12]. In the interview, Baba Ji mentions that his organization had kept medical before-and-after records of subjects pursuant to his meditation program and they have seen a significant improvement in the vast number of cases. Baba Ji also narrated the story of a program he conducted for medical doctors in New Jersey several years ago in which patients with kidney stones, tumor, and cysts participated. All three showed improvement in a single 30-minute meditation session and this cannot be attributed to the placebo effect.



Figure 7(a) Energy Diagram of the First Author at the Start of the Program



Figure 7(b) Energy Diagrams of the First Author at the end of Day 3 of the Program

DISCUSSION

Light-energy is essential to life. Life cannot be created even when supplied with all the chemicals in the body and all the modern gadgets. The missing element is energy, more specially light-energy. Nature has made provision for processes for human-life creation through conception. The available data suggests that the light-energy of apparently healthy individuals remains within a band for much of their lives, precipitously dropping to a low value at the end of life. These ideas are reflected in Figure 8 (a). The available data also shows that the light-energy of severely unwell individuals is very low (in the range of 15 – 35 J) in comparison with apparently healthy individuals (> 40 J or so), chakras are much smaller in size corresponding to very low energy levels, and health status energy diagrams also reflect very low energy levels. Korotkov has reported on the light-energy of nine subjects dying from various causes [13]. The glow area of the fingers which form the basis of the GDV results for these nine subjects reached very low values. As an example, the glow area for one of the subjects for several days after death is shown in Figure 8(b). The foregoing information taken together suggests that we should all strive to keep our light-energy level up as late in life as possible and meditation is a way to do so. A larger long-term study should study the hypothesis that keeping the energy level up through meditation does in fact lead to a higher quality of life and a longer lifespan. The large body of literature on the myriad of benefits of meditation in scientific, medical, and business journals is supportive of a likely positive outcome.

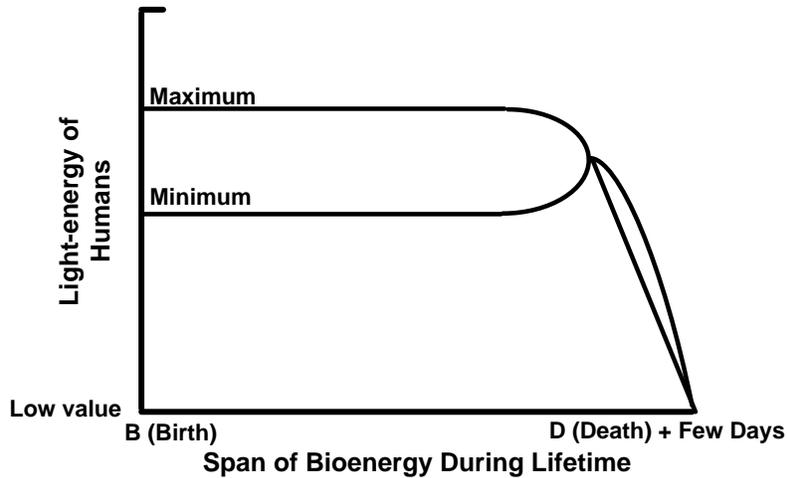
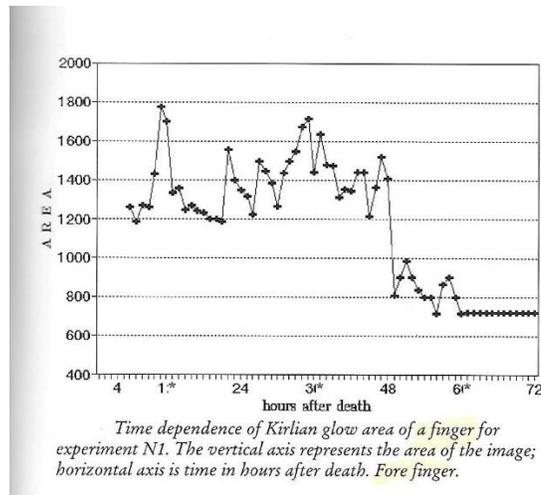


Figure 8(a). Criticality of Light-energy to Life



**Figure 8(b) Glow Area of the Fore Finger for Several Days after Death
(Source: Ref. [13] with Permission of Dr. Korotkov)**

The US Army conducted experiments in 1993 to investigate the possible impact of emotions on DNA. They collected a sample of tissue and DNA from a subject's mouth and located it in a different room in the building. Then, the subject was shown videos which were selected to evoke a spectrum of emotions. The researchers discovered that every time the subject experienced emotional peaks and valleys, his cells and DNA exhibited powerful electrical responses at the same instant although the subject and the DNA were separated by a distance measured in hundreds of feet. The scientist later reproduced the results when the distance between the two was several hundred miles [14]. Researchers at the Institute for HeartMath (IHM) conducted an experiment in 1995 to study the effect of coherence (which is associated with positive emotions – unconditional love, compassion, kindness, appreciation, etc.,) + intention on DNA placed in a beaker several feet away [15]. They assigned the task to a group of five who were trained in achieving

high coherence to focus on the placental DNA. With high coherence, the team could intentionally wind or unwind the DNA. These data highlight the power of meditation to influence us at the cellular level. Recent studies offer a clue as to how meditation might be working in some cases [16, 17]. Here, researchers implanted an electric device near the collarbone that emitted electrical pulses to stimulate the vagus nerve which helped block surges in inflammatory molecules. Benefits for rheumatoid arthritis and Crohn's disease patients have been reported.

Six sigma highlights the importance of steadfastly remaining committed to relying on data alone for decision-making and that is a good thing but the yogi offers an equally valuable advice: At the time of meditation, give your rational mind a well-deserved vacation or else it will turn into your worst enemy. In this context, the feelings of Shraddha, Bhakti, and Vishwas (faith, devotion, confidence) that are supportive of success with meditation come easily to the religious-minded, but hopefully, the scientific explanation presented here will have a similar effect for the rational-minded.

From a scientific perspective, every human being is a nonlinear, self-regulating, multivariable entity, and evolving each with unique characteristics (Sanchet Karmas) inherited from ancestors and by their own actions, and therefore, it is difficult to guarantee the same level of benefits for everyone. From the yogic perspective, inability to rid ourselves of serious diseases means that Sanchet Karmas have not been entirely eliminated. This in turn may be because of several factors, among them are: (1) The meditation process is not optimized, (2) The practitioner hasn't been regular in the practice, and (3) There is a tinge of skepticism in the heart, mind, and consciousness of the practitioner.

Much of the world is not in a position to take advantage of the ongoing medical advances owing to high costs. The approach outlined here is advantageous in this respect. A distinguishing feature of this approach is also that the subject is a more active participant in contrast to standard approaches. The suggested approach is worthy of being considered as a complementary approach to standard medical care.

It may not be possible to deliver the kinds of benefits the referenced yogi apparently can for he has spent many decades meditating for long hours. That said, everyone will benefit to a significant-enough extent to make the effort worthwhile. This article has barely scratched the surface. Much further work is possible, and hopefully, the article will serve as an impetus for further research on the topic of meditation as cancer.

TO CONCLUDE

A yogic perspective on cancer is presented. The process of meditation is a tool that is worthy of inclusion in the toolkit of physicians treating patients for various diseases. The article has presented the scientific rationale and a yogic perspective on cancer and limited experimental evidence on the prospects of treating and avoiding cancer with meditation.

ACKNOWLEDGMENTS

The first author acknowledges that this paper is inspired by the programs and discourses of Baba Shivanand Ji. It is written with the blessings of Gurumahan Maharishi Paranjotiar, founder, Universal Peace Foundation, Thirumurthi Hills, TN, India. The latter has been spending three weeks in meditation every year without any food and little water or milk for the last twenty-six years for world peace. The review and comments of Konstantin Korotkov and P. Krishna Madappa are gratefully appreciated.

REFERENCES

1. Baba Ji Feeds Monkeys in the Jungle, (Date Unknown), (<https://youtu.be/Jx5VaWBknbl>).
2. Mueller, David, Road Rage Nation, ABC-News. (2016, July 14), (<http://abcnews.go.com/WNT/video/road-rage-worse-40594136>).
3. Nummenmaa, L., Glerean, E., Riitta, H., and Hietanen, J. K. (2014, January 14), Bodily Maps of Emotions, PNAS, 111, 2. p. 646.
4. Deshpande, Pradeep B. and Kowall, James P., The Nature of Ultimate Reality and How It Can Transform Our World: Evidence from Modern Physics; Wisdom of YODA, SAC 2015 (available on amazon).
5. <http://eqradio.csail.mit.edu>.
6. Hotz, Robert L., Researchers Use Wireless Signals to Recognize Emotions, The Wall Street Journal, September 20, 2016.
7. McCraty, R., Atkinson, M., and Tomasino, D., Science of the Heart, Publication No. 01-001, Institute for Heart Math, Boulder Creek, CA 2001.
8. Korotkov, Konstantin G., Human Energy Field: Study with GDV Bioelectrography, 2002, amazon.com.
9. Chez, Ronald A., Ed., Proceedings. Measuring the Human Energy Field – The State of the science, The Gerontology Research Center, National Institute on Aging, National Institute of Health, Baltimore, MD, April 17 2002.
10. Deshpande, Pradeep B., Korotkov, Konstantin, and Kowall, James P., Bioenergy Measurements for Predictive Medical Diagnosis, Journal of Consciousness Exploration & Research, 7, 2, February 2016 pp. 126-136.
11. Deshpande, P. B., Aroskar, S. A., Bhavasar, S. N., and Kowall, J. P., Six Sigma Unravels Science of Meditation, Unpublished Paper, June 2017.
12. Devang Bhatt Interviews Baba Shivanand Ji, https://www.youtube.com/watch?v=TZmbkq5_xQ.

13. Korotkov, K., *Light After Life*, Backbone Publishing Company, Fair Lawn, NJ 1998 (available on amazon).
14. Braden, Gregg, *The Divine Matrix*, Hay House Publishers, 2007.
15. Rein, Glenn and McCraty, R., Structural Changes in Water and DNA Associated with a New Physiologically Measurable State, *J. Scientific Exploration*, 8, 3, 1994 pp. 438-439.
16. Fox, Douglas, The Electric Cure: An experimental procedure is exposing the links between the nervous and immune systems: Could it be start of a revolution?, *Nature*, Vol. 545, 4 May 2017, pp. 20 – 22.
17. Koopman, et al., Vagus Nerve Stimulation Inhibits Cytokine Production and Attenuates Disease Severity in Rheumatoid Arthritis Patients, *Proc. Nat. Acad. Sci.*, 113, 8284 – 8289, 2016.