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EC MICROBIOLOGY
Review Article

A Possible Application of DNA Transduction Experiment: Information Medicine for Pedestrians

Victor Christianto[1]*, Florentin Smarandache[2] and Rizha Vitania[3]

[1]*Malang Institute of Agriculture, Indonesia*

[2]*Department Mathematics and Sciences, University of New Mexico, Gallup, NM, USA*

[3]*Department of Medicine, Brawijaya University, East Java, Indonesia*

***Corresponding Author:** Victor Christianto, Malang Institute of Agriculture, Indonesia.

Received: March 01, 2021

Abstract

Light-based therapy has been known for a long time, some records even went back to ancient Egypt time. A modern version is the use of laser therapy for various purposes, and they are now categorized as Laser therapy in general and Low Level Laser therapy (LLLT). But most laser therapy devices are very expensive, and they are only available at large hospitals and clinics. In this article we discuss possible use of LLLT in the form of laser LED pointer for treatment of several illnesses. First of all, we begin with a short review of laser LED pointer for acupuncture and then we discuss its implication to information medicine. We also discuss possible reasoning from DNA transduction experiment, as reported by Luc Montagnier., *et al*. While this idea is not really new, the implication for information medicine with laser LED pointer is quite striking.

Keywords: *DNA Transduction; Information Medicine; Ivermectin; Laser LED Pointer*

Abbreviations

LASER: Term Laser is the acronym for Light Amplification by Stimulated Emission of Radiation. A laser light is monochromatic, collimated, and coherent. A laser is a device that produces such a light; LED: Light-Emitting Diode (a semiconductor diode which glows when a voltage is applied); LLLT: Low Level Laser Therapy. Low level laser therapy (LLLT) is used by some physiotherapists to treat various musculoskeletal condition. LLLT is a non-invasive light source treatment that generates a single wavelength of light. It emits no heat, sound, or vibration. It is also called photobiology or biostimulation

Introduction

Light-based therapy has been known for a long time, some records even went back to ancient Egypt time. A modern version is the use of laser therapy for various purposes and they are now categorized as Laser therapy in general and Low Level Laser therapy (LLLT). In this article we discuss possible use of LLLT in the form of laser LED pointer for treatment of various diseases, which may include "covid-19" patients.

The abbreviation "LASER" represents Light (photons) Amplification by Stimulated Emission of Radiation. Low level laser treatment (LLLT) is the awesome most broadly acknowledged descriptor of the kind of lasers utilized in recovery. The actual instrument is viewed as a "*remedial laser*". LLLT has truly been named a non-warm modality. Non-warm modalities are those actual specialists that don't raise the subcutaneous tissue temperature more noteworthy than 36.5ºC. Consequently, the restorative impacts of LLLT are not related with a warming reaction, yet rather a photochemical reaction. When light (photons) enters the phone, certain atoms called chromophores respond to it, and trigger a photochemical response that prompts attractive physiologic impacts. LLLT is just another type of energy (actual specialist) that can be utilized to make physiological changes in tissue.

For further discussions on Laser therapy/biophotomodulation applications, see for instance [1,2,6,7].

While we don't conduct experiment yet on information medicine use of laser LED therapy, we review some existing literatures on this subject, along with a discussion with a biophysics expert colleague, around two years ago. So, we present this novel alternative treatment, with precaution for users.

History of light-based therapy[1]

Based on archaeology findings, light-based therapy was already in use since around ancient Egypt time. They utilized sunlight to treat several illness.

It has been known for quite a while that light has as a heap of helpful impacts. Since 1400 AD, many major human advancements were utilizing daylight in the therapy of skin infections, including vitiligo, disease, and psoriasis. The Egyptians constructed exceptional light recuperating sanctuaries that pre-owned sun and shaded light for different mending purposes. Alongside the Egyptians, the Assyrians and the Babylonians all rehearsed restorative sun mending, called heliotherapy. Herodotus, a popular Greek doctor, was believed to be the father of heliotherapy and accentuated the significance of sun openness for the restoration of well-being. The Greek city, *Heliopolis*, was known for its recuperating sanctuaries and light rooms, which had windows covered with different shaded materials which were thought to have distinctive mending properties. Many accepted that the red light of the sun added to these remedial impacts.

As time went on, numerous others got inspired by heliotherapy. In 1855, Arnold Rikli, a characteristic healer from Switzerland, created helio-hydroscopic treatment focuses in Bled, Slovenia. People who lived at these focuses lived in extraordinary houses, washed and sun tanned naked. Rikli accepted that the sun, air, and water were the wellsprings of well-being and recuperating. Notwithstanding, it was not until the 1870s that researchers in the field of light treatment turned out to be completely mindful of the recuperating properties of light.

In 1876, Augustus Pleasontan built up a hypothesis that blue light from the sun was useful in the development of plants just as in the wellbeing of people and creatures. His hypothesis depended on his perceptions that plants filled best in the spring when the sky was bluer. He performed probes the development of grapes that were presented to characteristic daylight and blue light. The outcomes showed that grapes presented to blue light developed quicker than those presented to coordinate daylight. In creatures, he found that blue light raised ripeness and expanded the rate of actual development. Pleasanton additionally found that blue light, from either the sun or a fake source, was a successful methods for animating the secretory organs and sensory system in people. He discovered this to be valuable in the treatment of different illnesses, particularly those went with torment. Despite the fact that his hypothesis was rarely completely received in the academic local area, his blue light hypothesis is viewed as the introduction of current chromotherapy.

[1]This section is adapted with paraphrasing from: Microsoft Word - BRIEF HISTORY OF PHOTOTHERAPY.docx (mimhtraining.com).

During the 1990s, there was an expansion in the utilization of low-level light treatment (LLLT). In 1996, Michael Conlan started to research the impacts of close infrared laser light treatment on injury mending. Additionally, during the 1990s, NASA started investigating the impacts of light producing diodes (LEDs) on injury recuperating. Their outcomes show that when presented to LED, there was a 140 - 200% increment in cell development in mouse muscle and skeletal cells. They finished up their results would extraordinarily build the mending season of wounds when this application is applied to people.

A significant achievement throughout the entire existence of PDT happened in 1975 when Thomas Dougherty and partners detailed the complete fix of a tumor following organization of HpD and initiation with red light. Dougherty., *et al*. directed mice 2.5 - 5.0 mg/kg of HpD and presented them to red light for three hours per day, over a five-day time frame. Their outcomes showed that 48% of the mice were restored of their tumor. Following Dougherty's work, in 1976, Kelly and Snell were the first to utilize porphyrin based-PDT in the therapy of bladder malignant growth in people. Their outcomes showed that fluorescence was just seen in threatening and premalignant territories of the tumor, demonstrating that HpD could be utilized in the determination and therapy of bladder malignant growth.

Laser LED therapy for acupuncture

One of our friends, a doctor, told us how laser LED therapy is quite commonly used in his practice of laser-based acupuncture. Several treatments which often use laser acupuncture methods including but not limited to: stroke, removing tatoos, skin rejuvenation, facial/ageing problems etc. There is also hope for treatment of degenerative problems with this method, such as Alzheimer and Parkinson diseases too.

Figure 1: *Laser pointer for acupuncture therapy.*

The key of this method is that laser wavelength should be quite long to interact with cells below the skin (See figure 1 above).

While the above method of laser LED therapy and LLLT are already known, nonetheless there is only few literature discussing the use of laser LED pointer. In the following section, we will discuss how information medicine can be applied for molecule replication.

Information medicine using laser LED pointer

Although medicine treatment using laser LED method is already known, mostly they are based on photonic aspect of laser light. That is why such a method is called biophotonic modulation, photodynamics, or phototherapy.

But less is known on using information medicine in clinical practice.

A biophysics expert told us that there is special way one can use laser LED pointer.

Discussion with a biophysics expert

Around two years ago, we got a discussion via email with a biophysics information expert from Princeton Biotechnology Corporation, namely Dr Robert N. Boyd. Among other things he suggested a simple form of information medicine with laser LED pointer: "I've performed an experiment which has produced very good results. Using this method, the information of any beneficial herb or medication can be copied directly into the body, while the Ambient Intelligence removes all the side effects and after effects of the given substance, so that untoward influences are not present in the body or the psyche. It's like the spin field, only better, because laser pointers are much cheaper than spin field generators".

The experiment is rather simple: Get a laser pointer (I bought a red one). Get some aluminum foil and form a cone of aluminum foil around the light emitting end so that the base of the aluminum cone (the larger end of the cone) widens out where the light comes out. The small end of the cone is wrapped around the barrel of the laser pointer, so you end up with an aluminum cone surrounding the light-emitting end of the laser. Then, select any herb or medication, and place it on the back of your hand. Then place the aluminum-coned laser so that the laser light is aimed directly at the herb or medication.

Turn on the laser. Get the laser, with its cone, as close as possible to the medication, in the vertical sense, and keep it centered on the medication. Keep the laser on that spot for at least 5 minutes. The laser light bounces off the medication, then bounces off the aluminum cone, then radiates into the skin, for as long as the aim is accurate and the laser light is on. The information of that medication is now inside your body, in your blood stream, and so on.

The Ambient Intelligence removes all undesirable effects. It appears that laser-induced medication, results in effects which are better than the original substance. The effects of the laser-induced medication have lasted for hours longer than the effects of the actual medication is expected to last, when the medicine is consumed. No drug interactions can occur, since no drugs are ingested. Overdose seems impossible, since there is no dose of any chemicals".

Possible scenario for information medicine

Let say, there is epidemic in small town in one country in Africa, like Congo or Zimbabwe. The epidemic is spreading fast, and local doctors only got a limited source of medication.

Let say a medication is known, for instance Ivermectin, but supply at those town is very limited, therefore it is needed to replicate quickly Ivermectin in supply.

In that case, the following method can be used:

- Find a laser LED pointer available in the market,
- Put Ivermectin tablet on human skin under treatment,
- Make a cone shape from a aluminum foil,
- Then apply laser LED ray on the tablet, directed at producing exact copy of molecule of the tablet into cells below the skin,
- This method can be considered as information medicine way to inject the tablet to human body. Or it may be referred as the next generation of injection method.
- In that way, the particular medication can be used million times for all people in the town, even the doctor only has one pill of Ivermectin.

Illustration of laser LED pointer

Figure 2: *Laser LED pointer.*

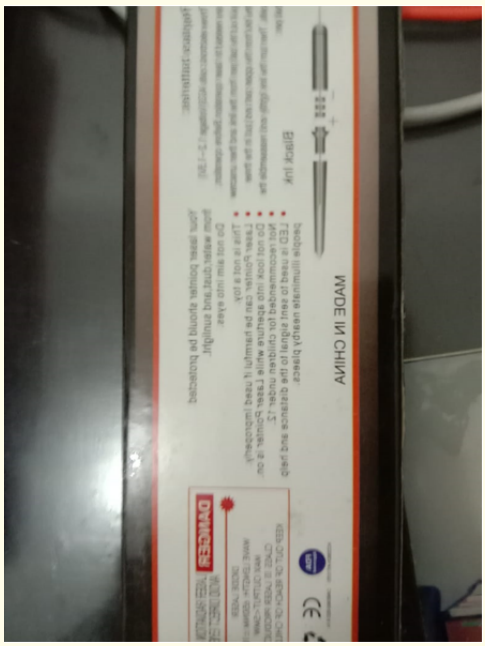

Figure 3: *Laser LED pointer.*

For more reports on low level laser therapy and photomodulation in general, see for instance [8-12].

Outline of reasoning: DNA transduction experiment

Such a proposed new method of injection based on information medicine is based on known DNA transduction experiment, as reported by Prof. Luc Montagnier., *et al* [4].

In their report, they explain how light ray sent through a glass of water comprising DNA molecule can make exact copy of DNA in question to the next glass of water.

The abstract of their report tells us the following [4]: "The experimental conditions by which electromagnetic signals (EMS) of low frequency can be emitted by diluted aqueous solutions of some bacterial and viral DNAs are described. That the recorded EMS and nanostructures induced in water carry the DNA information (sequence) is shown by retrieval of that same DNA by classical PCR amplification using the TAQ polymerase, including both primers and nucleotides. Moreover, such a transduction process has also been observed in living human cells exposed to EMS irradiation. These experiments suggest that coherent long range molecular interaction must be at work in water so to allow the observed features. The quantum field theory analysis of the phenomenon is presented".

That would imply exact replication of DNA molecule is possible, just as advised by the biophysics expert colleague aforementioned above.

See also Luc Montagnier., *et al.*'s other papers [3,5].

Concluding Remarks

Light-based therapy has been known for a long time, some records even went back to ancient Egypt time. A modern version is the use of laser therapy for various purposes, and they are now categorized as Laser therapy in general and Low Level Laser therapy (LLLT). But

most laser therapy devices are very expensive, and they are only available at large hospitals and clinics. In this article we discuss possible use of LLLT in the form of laser LED pointer for treatment of several illnesses.

While this short article does not discuss this novel approach of Laser LED pointer therapy in more detail, we hope that what we discuss here make sure that there are enormous potential applications of information medicine. We can expect to move from medicine of scarcity towards medicine of abundance.

While we don't conduct experiment yet on information medicine use of laser LED therapy, we review some existing literatures on this subject, along with a discussion with a biophysics expert colleague, around two years ago. So, we present this novel alternative treatment, with precaution for users.

Version 1.0: 27th February 2021

Version 1.1: 1st march, 2021. Pk. 15:35

VC, FS, RV.

Acknowledgement

These authors wish to extend sincere gratitude to Dr. Robert Neil Boyd from Princeton Biotechnology Corporation for his insights. Special thanks to dr. Kasan Susilo for sharing his laser acupuncture device, and to Ms. Cathleen Andrea from *EC Neurology*. This paper is a continuation of our previous paper discussing Helios multipurpose device, as published in *EC Neurology*, Special Issue, 2020.

Bibliography

1. Cui-Ping Yao., *et al.* "Laser-Based Gene Transfection and Gene Therapy". *IEEE Transactions on Nanobioscience* 7.2 (2008).

2. Marcus Vinicius de Matos Gomes., *et al*. "Effects of the led therapy on the global DNA methylation and the expression of Dnmt1 and Dnmt3a genes in a rat model of skin wound healing". *Lasers in Medical Science* (2016).

3. Luc Montagnier., *et al.* "DNA waves and water. Invited talk at the DICE". Conference, Castiglioncello, Italy (2010).

4. Luc Montagnier., *et al.* "Transduction of DNA information through water and electromagnetic waves". *Electromagnetic Biology and Medicine* 34 (2015): 106-112.

5. Luc Moantagnier., *et al.* "Water Bridging Dynamics of Polymerase Chain Reaction in the Gauge Theory Paradigm of Quantum Fields". *Water* 2017 (MDPI), 9 (2017): 339.

6. Claudia Dompe., *et al.* "Photobiomodulation-Underlying Mechanism and Clinical Applications". *Journal of Clinical Medicine* 9 (2020): 1724.

7. Michael R Hamblin. "Mechanisms and applications of the anti-inflammatory effects of photobiomodulation". *AIMS Biophys* 4.3 (2017): 337-361.

8. Lawrence DelRe. "The Ultimate Guide to Low Level Laser Therapy: Low Level Laser Therapy at Home with a Red Laser Pointer. Health-1st Publication. First edition (2009).

9. De Sousa AP., *et al.* "Laser and LED phototherapies on angiogenesis". *Lasers in Medical Science* 28.3 (2013): 981-987.

10. Vinck EM., *et al.* "Increased fibroblast proliferation induced by light emitting diode and low power laser irradiation". *Lasers in Medical Science* 18.2 (2003): 95-99.

11. Frigo L., *et al.* "Low-level laser irradiation (InGaAlP-660 nm) increases fibroblast cell proliferation and reduces cell death in a dose-dependent manner". *Photobiomodulation, Photomedicine, and Laser Surgery* 28.1 (2010): S151-S156.

12. Pal G., *et al.* "Effect of low intensity laser irradiation with human skin fibroblast cells using fiber-optic nano-probes". *Journal of Photochemistry and Photobiology B: Biology* 86.3 (2007): 252-261.

Volume 17 Issue 4 April 2021