

Biophoton Therapy Successfully Treated Multiple Gene Mutations Associated with a Rare Muscular Degenerative Condition: Case Report

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ABSTRACT

Objective: This case report presents the unprecedented recovery of a 40-year-old female patient suffering from a rare, undiagnosed muscular degenerative disorder associated with multiple gene mutations. Standard diagnostics failed to provide therapeutic relief, and conventional treatments yielded no improvement. The aim was to assess the efficacy of Tesla BioHealing® automatic biophoton generators (ABGs) as a non-invasive therapy.

Methods: The patient underwent six weeks of biophoton therapy using ABGs. Pre- and post-treatment evaluations included live blood microscopy, DNA mutation analysis, physical activity tracking, and systemic toxin/pathogen screening. A control subject—her husband—underwent simultaneous testing for comparison.

Results: Following therapy, the patient's genetic mutations decreased from 64 to 29, mobility improved from <1,000 steps/day to >6 miles/day, and she completed a half marathon. Blood analysis showed enhanced oxygenation and normalized red blood cell morphology. Systemic inflammation, heavy metal burden, and bacterial/viral toxins were significantly reduced, with the disease pathology score improving from 66 to 29. The control subject exhibited parallel, though less dramatic, improvements.

Conclusion: Biophoton therapy demonstrated potent systemic regenerative effects, including genetic repair, enhanced mitochondrial function, and reversal of muscle degeneration. This report highlights biophoton technology's potential as a safe, holistic therapeutic approach for complex degenerative and genetic conditions.

Keywords: Biophoton Therapy; Genetic Mutation; Muscular Degeneration; Mitochondrial Function; Cellular Repair; Regenerative Medicine

Abbreviations: ABG: Automatic Biophoton Generator; OTC: Over the Counter; CK: Creatine Kinase; ROS: Reactive Oxygen Species

Introduction

Muscular degenerative conditions, particularly those of rare and idiopathic origin, pose significant diagnostic and therapeutic challenges. Patients often present with progressive muscle wasting, elevated creatine kinase (CK) levels, and systemic complications, including cardiopulmonary impairment. Conventional diagnostic modalities—such as MRI and CT imaging—frequently fail to reveal a definitive etiology, while repeated exposure to ionizing radiation imposes additional health risks without therapeutic benefit. Genetic mutations have been increasingly implicated in the pathogenesis

of neuromuscular disorders. However, the genotype-phenotype correlation in rare cases remains elusive, and treatment options are typically limited to symptomatic management. Current standards of care, including pharmacotherapy and rehabilitative interventions, are frequently inadequate in halting disease progression or restoring function. Biophoton therapy is an emerging modality that utilizes biologically active light energy emitted in ultra-weak photon emissions to stimulate cellular repair, enhance mitochondrial bioenergetics, and restore systemic balance. Tesla BioHealing® automatic biophoton generators (ABGs), co-invented by the lead author, produce a

high-intensity biophoton field within the 500–1000 nm range and are designed to support natural self-repair mechanisms. Preliminary evidence suggests that biophoton exposure may modulate stem cell activation, oxidative stress, and DNA repair pathways.

This case report details the profound clinical recovery of a 40-year-old female with a rare, undiagnosed muscular degenerative disorder and 64 documented gene mutations. After six weeks of biophoton therapy using ABGs, the patient exhibited extensive systemic recovery, including the reduction of genetic mutations, normalization of live blood cell morphology, significant gains in mobility, and restoration of muscular function sufficient to complete a half marathon. This report underscores the potential for biophoton therapy as a novel, non-invasive intervention for complex, treatment-resistant conditions and highlights its relevance in the fields of genomic medicine, regenerative therapy, and mitochondrial health.

Case Presentation

The patient was a 40-year-old female living in Texas, USA. Her symptoms included muscle wasting, elevated CK levels, muscular degeneration affecting the heart and other organs, and complications from radiation exposure. Initial Health Concerns: The patient suffered from critical levels of muscle damage and degeneration, affecting her ability to move and perform daily activities, with a baseline activity of fewer than 1,000 steps per day.

Treatment Device and Usage

The ABG device is an advanced therapeutic device designed with proprietary technology to emit biophotons automatically and simultaneously within the wavelength range of 500 to 1000 nm. These emissions are delivered at intensities at least one million times greater than a healthy adult. Each ABG is rigorously characterized and analyzed using four highly sensitive, specialized instruments, and they were verified to automatically form a strong 3-dimensional biophoton field for at least three years without other energy resources, as illustrated in Figure 1. The ABG device is simple to use—users only need to place it near their body at any time, day or night, as illustrated in Figure 1. To date, more than 40,000 individuals with various chronic health conditions have used ABGs over periods ranging from weeks to years, with no reported side effects. Comprehensive clinical studies have been conducted to assess the safety and efficacy of ABGs in addressing common chronic diseases. The positive results from these studies have been submitted for publication in leading scientific and medical journals. Notably, one manuscript, suggested by a senior editor of Science, was submitted to Science Translational Medicine for peer review by top experts in the field. The illustrated 3-D biophoton field represents the dynamic quantum energy emitted by the Tesla BioHealing® ABGs. These devices are designed to harness and amplify natural biophoton emissions generated by all living cells during metabolic processes.



Figure 1: An illustration of a 3-D biophoton field generated by one or more automatic biophoton generators. This is also an illustration of how to use the device - a user lying in a 3-D biophoton field generated by automatic biophoton generators.

Biophotons play a pivotal role in cellular communication, regulation, and repair. Studies suggest that they are integral to maintaining homeostasis and supporting the natural healing processes of biological systems. The biophoton field created by these generators envelops the body, penetrating tissues at a cellular level. This field is theorized to enhance mitochondrial function, the powerhouse of the cell, by improving ATP production and reducing oxidative stress. By stimulating cellular energy production and repairing mechanisms, the biophoton field may promote a cascade of regenerative effects, including improved circulation, reduced inflammation, and accelerated detoxification. The design of the biophoton generators ensures a consistent and evenly distributed energy field, creating an optimal therapeutic environment. The placement of two generators beneath the patient's bed maximizes the exposure of the biophoton field to the entire body during sleep, a period when the body is naturally inclined toward repair and regeneration. This non-invasive and passive therapy aligns with the circadian rhythm, potentially amplifying the benefits of natural recovery processes.

Results

Blood Analysis Improvement

Baseline Condition: Initial blood analysis revealed severely misshapen and stacked cells, likely compromised by radiation exposure and the underlying health issues. The blood plasma showed signs of

contamination, and the cells displayed impaired oxygenation capacity, contributing to the patient's poor health.

Post-Treatment Results: Following six weeks of biophoton therapy, the patient's blood cells exhibited remarkable improvement. The cells appeared healthier, more independent, and surrounded by clearer plasma, which indicated enhanced oxygenation and improved cell function. A hematologist who reviewed the blood slides noted the stark contrast between the pre-treatment and post-treatment samples, underscoring the therapy's impact. These observations suggest that biophoton therapy may play a critical role in improving cellular health and oxygenation. From Figure 2, it is critical to emphasize the significant deterioration in cellular health observed. The analysis revealed severely misshapen and stacked red blood cells; a condition commonly referred to as rouleaux formation. This abnormality is indicative of compromised blood flow, reduced oxygen delivery to tissues, and systemic inflammation. These findings align with the patient's history of radiation exposure and underlying degenerative health issues, which likely exacerbated oxidative stress and impaired cellular function. The baseline blood analysis serves as a critical diagnostic marker, highlighting the extent of systemic damage and providing a visual representation of the profound physiological challenges faced by the patient. Radiation exposure, known to generate reactive oxygen species (ROS), likely contributed to the deformation and aggregation of cells, compounding the effects of the undiagnosed muscular degenerative condition.



Figure 2: Live Blood Visualized at Baseline.

The significance of this finding lies in its ability to establish a tangible link between the patient's symptoms and their cellular health status. It underscores the necessity of exploring therapies capable of reversing such extensive cellular damage and restoring systemic function. This baseline measurement also offers a valuable comparison point for assessing the therapeutic efficacy of biophoton therapy in subsequent analyses. By documenting the severely compromised cellular state at baseline, this figure underscores the gravity of the patient's condition and sets the stage for the remarkable improvements observed post-treatment, as detailed in subsequent sections. The live blood analysis provides a unique and compelling visual representa-

tion of the challenges and potential reversibility of the patient's health trajectory, highlighting the transformative impact of innovative therapeutic interventions like biophoton therapy. Figure 3 showed that the remarkable transformation in the patient's cellular health became evident. The post-treatment blood analysis revealed cells that were significantly healthier in appearance, with individual red blood cells distinctly separated, indicating a reduction in rouleaux formation. This separation is a marker of improved microcirculation and oxygen transport throughout the body. The surrounding plasma, now visibly clearer, suggests a substantial decrease in systemic inflammation, toxin load, and oxidative stress compared to baseline measurements.

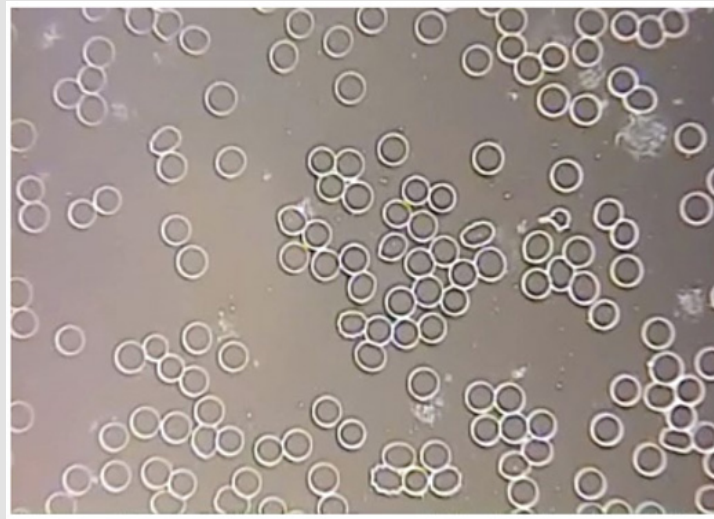


Figure 3: Live Blood Visualized at Week 6.

These changes are consistent with the reported systemic improvements experienced by the patient, including enhanced mobility, increased muscle mass, and greater overall vitality. The clearer plasma observed in the analysis points to improved blood filtration and detoxification, likely facilitated by the biophoton therapy's potential to stimulate mitochondrial function and cellular repair. Enhanced mitochondrial efficiency may have played a pivotal role in reversing oxidative damage and promoting energy production at the cellular level, contributing to the patient's recovery. The improved independence of the red blood cells further underscores the therapy's systemic benefits. Independent, non-aggregated cells are better equipped to traverse the capillary network, ensuring more efficient delivery of oxygen and nutrients to tissues. This improved cellular functionality aligns with the patient's physical accomplishments during the six weeks, including her ability to walk six miles daily and complete a half marathon. This post-treatment blood analysis serves as compelling visual evidence of the efficacy of biophoton therapy. It highlights the potential of this innovative approach to not only alleviate symptoms but also address the underlying cellular dysfunctions contributing to

complex degenerative conditions. These findings reinforce the need for further exploration of biophoton technology as a therapeutic tool, particularly in conditions characterized by severe cellular compromise and systemic inflammation.

DNA Mutation and Healing Progress

Baseline Condition: DNA testing conducted at a local clinical research facility in Texas revealed the patient had 64 genetic mutations, contributing to her compromised health and reduced resistance to environmental toxins and radiation.

Post-Treatment Results: After six weeks of biophoton therapy, DNA analysis demonstrated a substantial reduction in genetic mutations, decreasing from 64 to 29. The patient also showed improved resistance to environmental toxins and radiation.

Comparative Results: A similar reduction in genetic mutations was observed in the patient's husband, who served as a control, with mutations reduced from 64 to 36 during the same treatment period (Table 1). The results in Table 1, which demonstrate a reduction in

genetic mutations from 64 to 29 following biophoton therapy, signify a groundbreaking advancement in the field of regenerative medicine and genetic health. This finding is particularly remarkable given the prevailing view that genetic mutations, especially those associated with complex degenerative conditions, are largely immutable without advanced genomic interventions such as CRISPR or other targeted therapies.

Table 1: Genetic Mutations Detected at Baseline and 6 Weeks after Treatment.

Gene Mutations	Baseline	Week 6
Patient Herself	64	29
Patient's Husband	64	36

This breakthrough has several far-reaching implications for medicine and healthcare:

(1) Potential for Non-Invasive Genetic Repair: The observed reduction in genetic mutations suggests that biophoton therapy may enhance the body's natural mechanisms for DNA repair and genomic stability. This could represent a non-invasive alternative to current genetic modification technologies, offering a safer, less complex means of addressing hereditary or acquired genetic abnormalities.

(2) Restoration of Cellular Health: Genetic mutations often compromise cellular function, leading to systemic health issues, including degenerative conditions. By reducing the mutation burden, biophoton therapy may restore proper gene expression, improve cellular efficiency, and reverse disease progression at its root cause rather than merely addressing symptoms.

(3) Revolutionizing the Treatment of Rare Disorders: Many rare and undiagnosed conditions are associated with complex genetic profiles. The ability of biophoton therapy to substantially reduce mutations provides hope for patients with limited or no treatment options. This approach could be particularly transformative for conditions that are currently refractory to conventional medical interventions.

(4) Broad Applicability Across Diseases: The therapeutic potential of biophoton therapy extends beyond rare conditions. The ability to promote DNA repair and genomic integrity could have applications in treating age-related diseases, cancers, and other conditions driven by genetic instability or mutations.

(5) Enhancing the Understanding of Biophoton Technology: This breakthrough underscores the critical role of biophotons in cellular communication and repair. It expands the scientific understanding of biophoton therapy as a novel modality capable of influencing biological processes at the molecular and genetic levels.

(6) Shift in Therapeutic Paradigms: If validated through further studies, these findings could mark a paradigm shift in medicine, moving from symptom management to interventions that directly address the genetic and cellular origins of disease. Biophoton therapy could emerge as a cornerstone of next-generation treatments, offering a complementary or alternative approach to existing therapies.

The reduction in genetic mutations achieved through biophoton therapy represents not just a single medical breakthrough but a potential foundation for a new era in personalized and regenerative medicine. It provides a tangible example of how innovative, non-invasive therapies can drive significant improvements in genetic health, with implications for countless patients worldwide.

Physical Strength and Mobility

Baseline Condition: Before treatment, the patient experienced significant physical limitations, managing fewer than 1,000 steps daily due to her severe muscular degeneration and fatigue.

Post-Treatment Results: Over six weeks of biophoton therapy, her physical strength and endurance improved dramatically. By the end of the treatment period, she was walking over six miles daily and even completed a half marathon. This represents an extraordinary recovery in physical capabilities that had been severely impaired for over four years.

Reduction of Toxins and Pathogens

Baseline Condition: Clinical tests revealed elevated levels of harmful bacteria, heavy metals, chemical toxins, and viral counts in the patient's body, contributing to her deteriorating health. The disease pathology score was recorded at 66.

Post-Treatment Results: Biophoton therapy resulted in substantial reductions in these harmful factors. The disease pathology score dropped from 66 to 29, reflecting improved overall health. A similar trend was observed in her husband, who served as a Control, with reductions in toxins and pathogens reported during the same treatment period (Table 2). The baseline condition highlights the severe systemic burden faced by the patient, as clinical tests identified elevated levels of harmful bacteria, heavy metals, chemical toxins, and viral counts. These factors contributed to her worsening health and compromised physiological resilience. The disease pathology score of 66 underscores the severity of her condition, with such a high score indicating significant systemic dysfunction and susceptibility to further health deterioration. Post-treatment results demonstrate the transformative potential of biophoton therapy. Following six weeks of treatment, substantial reductions in harmful factors were observed, leading to a marked improvement in overall health. The disease pathology score dropped significantly from 66 to 29, nearly halving the burden of disease and reflecting substantial recovery across multiple

biological systems. This improvement aligns with other clinical observations, such as enhanced cellular health and physical capacity, further supporting the efficacy of biophoton therapy in addressing systemic health challenges. Interestingly, similar health benefits were observed in her husband, who served as a Control during the same treatment period.

Table 2: Pathologic Factors Detected in the Body before and after Biophoton Therapy.

	Husband (Control)		Wife - Patient	
	Baseline	6 Weeks	Baseline	6 Weeks
Allergens	40	17	45	23
Food Allergens	30	16	21	16
Dangerous Bacteria	43%	28%	36%	19%
Chemical Toxicity	22%	14%	36%	13%
Heavy Metal	33%	17%	33%	12%
Hormone Imbalance	37%	21%	30%	17%
Molds and Fungus	36	18	40	24
Mycotoxins	73%	38%	Not Provided	Not Provided
Disease Pathology Score	65	31	66	29
Parasites	24	17	27	16
Pesticides	35	19	41	24
Phenolic	80	45	70	33
Viral Count	31	14	38	19
Brain Centralized Toxins	30	16	37	17

Clinical tests revealed reductions in toxins and pathogens in his system, indicating that the biophoton field may have broad applicability and systemic benefits, even in individuals without severe pre-existing conditions. This finding provides additional evidence of the potential for biophoton therapy to act as a comprehensive health-promoting modality. These results underscore the therapeutic value of biophoton technology, not only for addressing critical health challenges in individuals with severe conditions but also for promoting overall systemic detoxification and resilience in a broader population. The dramatic reduction in the disease pathology score and the parallel improvements in the control subject signify a promising breakthrough in non-invasive therapeutic interventions aimed at restoring systemic health. The important observations from the baseline and post-treatment results are as follows:

- 1. Significant Reduction in Disease Pathology Score:** The patient's disease pathology score dropping from 66 to 29 reflects a profound improvement in overall systemic health. This metric encapsulates multiple biological parameters,

indicating that biophoton therapy has a broad-spectrum impact on restoring physiological balance and reducing disease burden.

- 2. Reduction in Pathogens and Toxins:** Elevated levels of harmful bacteria, heavy metals, chemical toxins, and viral counts observed at baseline were significantly reduced post-treatment. This reduction highlights the detoxifying effects of biophoton therapy, which appears to enhance the body's natural ability to eliminate harmful substances and pathogens.
- 3. Systemic Health Improvement Across Multiple Domains:** the reductions in toxins, pathogens, and the disease pathology score align with other documented improvements, such as enhanced cellular health, clearer plasma, and better oxygenation. These multi-faceted benefits suggest that biophoton therapy acts on both cellular and systemic levels to improve health.
- 4. Benefits Extended to a Control Subject:** Observing similar trends of reduced toxins and pathogens in the patient's husband, who served as a control, underscores the potential for biophoton therapy to benefit individuals across different health conditions. This observation suggests the therapy's application may not be limited to severely ill patients but could also promote overall wellness and preventive health.
- 5. Non-Invasive Nature of Therapy:** The therapy's ability to produce such profound changes without invasive procedures, medications, or adverse side effects is a critical observation. It highlights biophoton therapy as a safe and viable alternative or adjunct to traditional treatments.
- 6. Improvement in Cellular Function:** The decrease in systemic toxins and pathogens likely alleviated oxidative stress and mitochondrial dysfunction, enabling cells to function more efficiently. This improved cellular environment supports systemic health and correlates with the patient's enhanced physical capacity, including increased mobility and muscle strength.
- 7. Enhanced Detoxification and Homeostasis:** The reductions in harmful substances suggest an improved ability of the liver, kidneys, and lymphatic system to process and eliminate toxins, possibly facilitated by the biophoton field's regenerative effects on cellular and organ function.
- 8. Consistency with Other Clinical Markers:** The reductions in the disease pathology score and toxins align with observed improvements in genetic mutation reduction, blood cell health, and physical performance metrics. This consistency strengthens the case for biophoton therapy's comprehensive therapeutic potential.

- 9. Potential as Preventive and Adjunctive Therapy:** The improvements in the control subject suggest biophoton therapy might have preventive applications, reducing subclinical toxin levels and improving resilience in otherwise healthy individuals.
- 10. Broad Applicability to Complex Health Challenges:** The case highlights the ability of biophoton therapy to address complex, multifactorial health conditions, including those involving genetic mutations, environmental toxin exposure, and systemic dysfunction, where conventional treatments have failed.

These observations collectively demonstrate that biophoton therapy is a promising innovation with potential applications in both therapeutic and preventive healthcare settings. The profound improvements in the patient's health and the control subject's detoxification highlight its broad systemic benefits and underline the need for further clinical research to validate and expand its use.

Muscle Growth and Regeneration

Baseline Condition: The patient was unable to engage in any form of exercise by June 2021 due to severe muscle wasting caused by her neuromuscular disease. Medical expectations suggested lifelong muscle degeneration with minimal potential for recovery.

Post-Treatment Results: Following biophoton therapy, the patient experienced a dramatic reversal of her condition. She rejoined a gym and began weightlifting, leading to significant muscle mass regrowth and cardiopulmonary strength improvement. Her progress far surpassed medical expectations, demonstrating a remarkable recovery in both physical capability and overall muscular health (Figure 4). This outcome underscores the potential of biophoton therapy in stimulating muscle regeneration and reversing the effects of degenerative conditions. The figure illustrates the patient's extraordinary recovery in physical performance over the course of her treatment, providing a compelling timeline of her transformation. Her peak exercise performance was recorded on March 13, 2017, prior to the onset of her degenerative condition. At that time, her metrics for muscle strength, endurance, and cardiopulmonary capacity reflected a high level of physical fitness. By June 2021, before the initiation of biophoton therapy, the patient was unable to engage in any form of exercise due to severe muscle wasting and systemic health decline. This marked a significant loss in physical capacity, underscoring the devastating impact of her condition on her overall quality of life. Following approximately 18 months of biophoton therapy, the patient experienced a complete recovery of her exercise capacity, as documented on May 24, 2023. Key metrics showed a return to her pre-disease physical performance levels, including substantial improvements in muscle strength, endurance, and cardiopulmonary capacity.

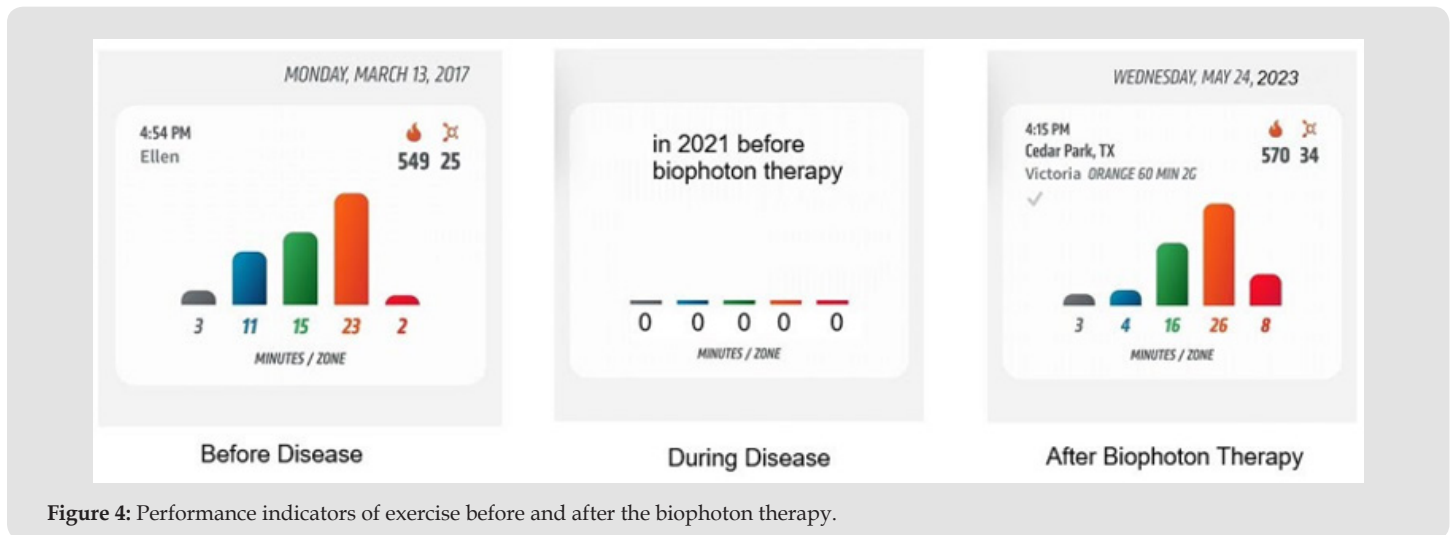


Figure 4: Performance indicators of exercise before and after the biophoton therapy.

This remarkable transformation highlights the regenerative potential of biophoton therapy, which appears to have facilitated not only the reversal of muscle wasting but also the restoration of systemic functions critical for physical activity. The timeline illustrated in this figure emphasizes the significance of biophoton therapy in achieving recovery from a previously debilitating condition. It showcases the ability to promote long-term improvements in physical performance, providing hope for patients with severe degenerative con-

ditions and establishing a foundation for further exploration of this innovative treatment. This progression underscores the therapeutic potential of biophoton therapy, particularly in facilitating muscle regeneration, improving oxygen delivery, and enhancing overall physical recovery. The therapy appears to have addressed not only the symptoms of muscle wasting but also the underlying systemic dysfunctions, allowing the patient to rebuild strength and endurance to levels that support advanced physical activity. The data presented in

this figure exemplifies the power of non-invasive biophoton technology to restore physical functionality, even in cases of severe degenerative conditions. This case serves as an inspiring demonstration of how innovative therapies can transform lives and offers compelling evidence to support further investigation into biophoton therapy for muscle regeneration and recovery.

Discussion

This case presents compelling clinical evidence supporting the regenerative potential of biophoton therapy in a patient with a rare, undiagnosed muscular degenerative condition compounded by multiple gene mutations. Over a six-week course of therapy using automatic biophoton generators (ABGs), the patient experienced multidimensional health restoration, including improvements in mobility, blood cell morphology, toxin clearance, and genomic stability. These findings demonstrate both localized and systemic therapeutic effects, reinforcing biophoton therapy's emerging role as a novel, non-invasive modality for addressing complex, treatment-resistant diseases [1,2]. Biophoton emissions are increasingly recognized as critical mediators of intercellular communication and regulation of homeostasis. Prior theoretical and experimental work by Popp and others has proposed that ultra-weak photon emissions may facilitate coordination of metabolic activities and activation of repair pathways, particularly within mitochondria. In this case, the observed improvements in oxygenation and red blood cell morphology suggest a direct effect on mitochondrial bioenergetics, while the patient's enhanced physical capacity points to restore muscular and cardiovascular function. A particularly novel and noteworthy outcome in this report is the dramatic reduction in the number of detected gene mutations, from 64 to 29, in just six weeks of biophoton exposure.

Traditional paradigms in genetics assert that such mutations, especially those associated with inherited degenerative conditions, are largely irreversible outside of gene-editing technologies. Yet, this outcome indicates that biophoton therapy may influence DNA repair mechanisms and epigenetic reprogramming through non-invasive energetic means. These findings are aligned with prior observations that photobiomodulation can enhance DNA repair enzyme activity and reduce oxidative stress-induced genomic damage. In addition to genetic and cellular improvements, the patient exhibited a significant reduction in systemic burdens such as heavy metals, pathogenic microorganisms, and environmental toxins, with her disease pathology score improving from 66 to 29. Her husband, serving as a control, also demonstrated parallel improvements despite not being presented with active disease. This suggests that the biophoton field may exert general health-promoting effects across individuals with varied baseline health statuses, supporting its potential as both a therapeutic and preventive tool. Comparative literature on biophoton applications remains limited but growing. Biophoton therapy is an emerging field with limited but growing scientific validation. Previous non-clinical studies have highlighted the role of biophotons in cellular commu-

nication and repair, particularly in enhancing mitochondrial function and promoting cellular regeneration. For instance, Popp et al. [3] first proposed the role of biophotons in cellular signaling and maintaining homeostasis.

More recent research has suggested that biophoton emissions play a role in regulating oxidative stress and stimulating DNA repair mechanisms [4-8]. Clinically, this case highlights several key considerations:

- **Non-Invasive Modality:** ABG-based biophoton therapy offers a safe, drug-free, and passive approach to address debilitating conditions.
- **Systemic Benefits:** Improvements in genetic integrity, blood physiology, and detoxification suggest the therapy affects both local cellular environments and broader systemic functions.
- **Relevance to Rare and Refractory Diseases:** The therapy presents a potentially transformative option for patients with limited or no conventional treatment pathways [9].
- **Therapeutic Consistency Across Subjects:** Parallel benefits observed in the control subject highlight biophoton therapy's reproducibility and possible preventive applications. While the findings are highly promising, further studies are warranted to validate these effects in larger cohorts and controlled clinical trials. Mechanistic investigations should also be pursued to elucidate the exact pathways by which biophoton energy modulates mitochondrial, genetic, and systemic functions. Relevance to the Field. This study is highly relevant to the fields of regenerative medicine, mitochondrial biology, and non-invasive therapeutics. It offers a novel perspective on how biophoton therapy can be integrated into the management of complex, treatment-resistant conditions. Moreover, it lays the groundwork for further research into the mechanisms underlying biophoton therapy and its potential applications in broader healthcare contexts. Future studies should aim to validate these findings in larger cohorts, elucidate the precise mechanisms of action, and explore the therapy's long-term safety and efficacy. By building on the insights from this case, biophoton therapy could emerge as a transformative tool in modern medicine, bridging the gap between conventional treatments and the unmet needs of patients with chronic and degenerative conditions.

Conclusion

The present case report offers compelling evidence that biophoton therapy, delivered through automatic biophoton generators (ABGs), may serve as a powerful, non-invasive intervention for complex degenerative diseases characterized by genetic mutations, muscular atrophy, and systemic dysfunction. The patient's remarkable clinical recovery—manifested by a reduction in gene mutations, enhanced mitochondrial and blood cell function, improved detoxifi-

cation, and complete physical rehabilitation— highlights the multifaceted therapeutic effects of biophoton exposure. Notably, the documented reduction in genetic mutations from 64 to 29 challenges conventional views on the irreversibility of somatic gene alterations and underscores the potential for energy-based modalities to support genomic stability and cellular self-repair. In parallel, systemic improvements observed in a non-diseased control subject reinforce the broader health-promoting potential of biophoton fields beyond symptom-specific treatment. These findings position biophoton therapy as a promising adjunct or alternative to conventional pharmacologic and surgical interventions, especially in patients who have exhausted standard treatment options. This report contributes novel insights into the emerging field of quantum and regenerative medicine and supports further clinical investigation into the mechanisms, safety, and therapeutic efficacy of biophoton technology across diverse pathological conditions.

Future controlled studies with larger cohorts are warranted to validate these outcomes, explore long-term benefits, and optimize treatment protocols. As scientific interest in non-invasive energy medicine continues to expand, biophoton therapy may represent a foundational shift in the approach to treating complex chronic diseases, combining cellular repair, genomic healing, and whole-body revitalization in one integrated modality.

Data Availability Statement

The datasets generated and analyzed during the current study are available from the corresponding author on reasonable request.

Ethics Statement

The patient provided written informed consent for the use of biophoton therapy and the publication of this case report, including any relevant medical data. This case study follows the ethical guidelines outlined in the Declaration of Helsinki. Written informed consent for publication was obtained from the patient involved in this study.

Conflict Interest

Tesla BioHealing, Inc., provided the automatic biophoton generators used in this case study but did not influence the study design, data collection and analysis. JZL and HYG are co-inventors and co-founders of Tesla BioHealing, Inc. The remaining author PK declares that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

Author Contributions

JZL, KR, and HYG contributed to the study preparation and data collection. JZL and KR performed the data analysis, JZL, KR and HYG contributed to the interpretation of the data and manuscript writing. All authors read and approved of the final manuscript.

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Tesla BioHealing, Inc., provided the automatic biophoton generators for the study without other financial contribution.

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