Abstract

Three case studies supporting the reversal of macular degeneration using low-frequency sound presentation techniques of BioAcoustic Biology

Macular degeneration, commonly referred to as age-related macular degeneration or AMD, is a condition in which the macula, the part of the retina responsible for detailed and central vision, deteriorates causing vision loss. It is most common among Americans—particularly white women over the age of 65. The conventional medical literature states that there is no cure for AMD. According to a study published in *Archives of Ophthalmology* in 2004, an estimated 1.75 million US residents endure this condition, and due to an increase in the elderly among the population, it is estimated that by the year 2020 that statistic will rise to almost 3 million.

BioAcoustic Biology assesses the frequencies found within a voice sample and compares the harmonic patterns to an established software database that has the ability to detect anomalies. Research indicates that this correlation is possible because the recurrent laryngeal nerve, which is attached to the larynx, allows the vocal cords a direct frequency conduit to the brain.

The tenets of BioAcoustic theory propose that the recurrent laryngeal nerve acts to entrain the vocal cords to reflect predictable frequency-based biomarkers. Once vocal patterns have been evaluated, the resulting data can identify deviations from vocal tones expressed as phonemes (smallest sound units of a language that conveys distinct meaning) that are shown to be distorted, non-coherent or lacking. When such cacophonous sounds are realigned via appropriate external or internal sources, the body seeks to return to optimal form and function.

Dorothy, a volunteer, has been involved for nearly six years in the study conducted by the Institute of BioAcoustic Biology located in rural southern Ohio. Her case and others have shown promise toward reversing the threat of blindness for persons suffering age-onset Macular Degeneration (AMD).

Several additional study participants showed marked improvement but Dorothy's case was one of the most noteworthy; possibly because her case was identified early. Not only was her "blind spot" reversed but several other factors, for instance lack of brightness of the visual field, was reversed during her tenure with the study.

This novel method of self-healing is turning heads and, literally, opening eyes with its potential.

Professional organizations such as the Acoustical Society of America are considering the standards for technical definitions for Human Bioacoustics. This paper suggests specific language for such definition, arising from the outcomes presented herein.

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Three case studies supporting the reversal of macular degeneration using low-frequency sound presentation techniques of BioAcoustic Biology

Dorothy, Pauline, and Robert were all suffering vision loss due to macular degeneration. Their physicians had given them little hope, leaving them to search elsewhere for an alternative to their failing eyesight. This quest for a better prognosis and optimism brought them to the Sound Health Research Institute, where Sharry Edwards and her team practice a unique form of math-based wellness.

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Robert Day

Robert was diagnosed with wet macular degeneration when he was approximately 64 years old. At this time, a lack of light caused his vision to be severely limited. He was unable to operate a vehicle at night due to his inability to perceive both parked vehicles alongside streets. Road signs, even those with large letters, were unclear to him until he came directly upon them. It was also impossible for him to identify objects in a low light environment.

This inability also began to influence his work performance. Robert's job involved driving a cart in and out of a plant warehouse. The bright, natural light outside would temporarily—for a time span up to 30 minutes—blind him upon re-entering the fluorescent lighting inside the plant. Furthermore, he suffered from a lack of depth perception, as objects commonly appeared closer than they actually were.

When asked how BioAcoustics makes him feel, he stated: *"It's given me some freedom and I don't trip over my dogs near as much."*

…Robert Day

Robert's condition is most likely genetic, as his mother also suffered with AMD. Once his condition was identified, Robert's doctor not only told him that he was going to have to endure this condition for the remainder of his life—offering him a vitamin as treatment—but that living long enough would eventually cause blindness. Robert did not consider this an acceptable solution, and knew that something must be done. Having heard about an experimental technique offered by the Sound Health Research Institute in Southern Ohio, Robert decided to give it a try.

During his first visit, Sharry Edwards, Sound Health's Director and acknowledged pioneer of BioAcoustic Vocal Profiling performed an assessment of his vocal frequencies and began experimental tone trials. It has been two years since Robert completed his first visit, and in that time he has regained all his vision except for a small hazy section. When he faithfully listens to his tones, he has the ability to see in a low light room. When asked how BioAcoustics makes him feel, he stated: "It's given me some freedom and I don't trip over my dogs near as much."

Robert continues regular BioAcoustic check-ups for readjustments as his eyes seek to regain normal function. Repeatedly conventional medical practitioners had informed Robert that nothing could be done to improve his eyesight. There has been such dramatic improvement over the last few years using BioAcoustic techniques that Robert only visits his medical practitioner to document his improvements.

Dorothy Edwards



Dorothy suffers from dry macular degeneration. ~~Dorothy~~ She was not diagnosed until the age of 82. At that time she had areas of her vision missing and was unable to view her lip in the mirror because of the deterioration of the macula. Dorothy was distressed because she was not able to completely observe her sewing nor could she see well enough to continue her church choir activities.

A few days after noticing this loss of sight, Dorothy paid a visit to the Sound Health Research Institute. A short time – less than an hour - after commencing tone trials of the appropriate sounds, she was again able to see the "missing" part of her lip and through ongoing participation has reversed the hole in her vision that once hindered her sight.

Dorothy has been undergoing tone trials for almost six years now, and her physician is pleased that the AMD has not progressed.

Dorothy Edwards has been involved in a six year study that has shown promise toward reversing the threat of blindness for persons suffering age-onset Macular Degeneration (AMD). All three of the study participants presented here showed marked improvement but Dorothy's case was one of the most noteworthy; possibly because her case was brought to the Institute for BioAcoustic Biology so early in the disease process. Not only was her "blind spot" reversed but several other factors, like brightness of the visual field, came under study. One subject had AMD for eleven years before she joined the study but her case was significantly improved also. All three case studies presented here involving AMD are showing continued progress through the aide of BioAcoustic Biology. This relatively unknown method of self-healing is turning heads and-literally-opening eyes with its potential.

In 2007, Dorothy's Vocal Profile revealed that the Frequency Equivalent™ of the lens of the eye was below normal limits. In less than two minutes of low frequency sound presentation, Dorothy had no problem seeing herself in the mirror. Sounds were

presented for an additional thirty minutes. Twelve hours later, with no sound, her vision was still intact.

With continued BioAcoustic intervention, Dorothy's vision continues to remain stable.

Pauline Ward



Pauline Ward has been a participant at Sound Health for 11 years since being diagnosed with dry macular degeneration almost seven years ago while in her early sixties. Her condition can also be ascribed to genetics, and she recalls memories of her mother who would strategically place the grandchildren within her line of peripheral vision attempting to see their faces. Pauline admits that she, too, has had to take similar measures in the past.

According to Pauline, her optometrist was the first to detect the granules in her eyes, though it took six/seven years before the condition actually affected her vision. The way she describes the transition from dry macular degeneration to wet, is that a tiny spot is distorted in the affected eye and gradually grows to become a "blind spot". Her blind spot grew until about three years ago when its scope spanned the proportion of a quarter, which is visually the range of seventeen characters on a page of print. Like Robert, she was also visually lacking in seeing at a distance, and completely unable to view remote colors.

> *"…it wasn't the first sound you tried, or the second or the third; you know it might have been the tenth. So I'm sitting here thinking, 'Oh nothing's happening, nothing's happening, nothing's happening'; so I wasn't expecting it, you know, because you think nothing's happening and then suddenly the right sound (for) ten seconds and it's amazing. You can begin to see the letters and colors."*
>
> …Pauline Ward

Pauline travelled from Australia, where there were no methods of treatment, to the US to try the revolutionary technique at Sound Health. After about 10-11 seconds with the appropriate frequency, she could see haze through the spot, though not clearly. After several days of tones, she was able to see complete letters within the holes and eventually the span of her impairment decreased as did holes in her vision. She even regained the ability to see rich colors myopically.

When critics support this scientific-based method as being a placebo, Pauline knows how to respond:

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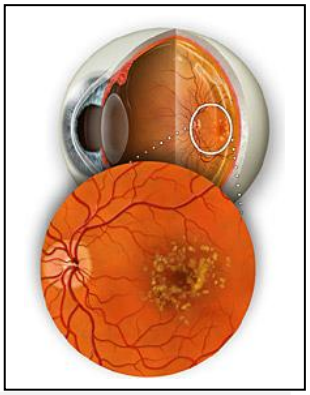
The Basics of Macular Degeneration

Macular degeneration, commonly referred to as age-related macular degeneration or AMD, is a condition in which the macula, the part of the retina responsible for detailed and central vision, deteriorates causing vision loss. It is most common among Americans—particularly white women over the age of 65. According to a study published in *Archives of Ophthalmology* in 2004, an estimated 1.75 million US residents endured the condition, and due to an increase in the elderly among the population, it was estimated that by the year 2020 that statistic will rise to almost 3 million.

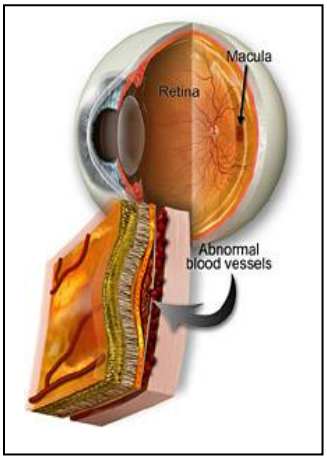
There are two types of macular degeneration: dry (non-neovascular), with dry macular degeneration being more commonly diagnosed at 85-90 percent of all cases, and wet (neovascular), which may cause more profound vision loss.

Dry AMD is caused either by the thinning of macular tissues or a deposit of drusen, or yellow spots, between the retinal pigment epithelium and the choroid beneath it. Those who suffer from early dry AMD may continue to have good vision for a while; however, as the condition progress it will cause gradual loss of central vision. The loss of vision for someone diagnosed with wet AMD, which dry may progress to, will become far more serious.

Photos courtesy of AllAboutVision.com



Dry AMD: Drusen accumulates behind the retina.



Wet AMD is caused by abnormal blood vessel growth behind the macula, in which the blood vessels leak blood and protein, killing off light-sensitive retina cells and creating blind spots. Severity of the vision loss depends on the amount of fluid build-up and whether or not scarring is incurred.

Wet AMD: Abnormal blood vessels form in the back of the eye and cause leakage.

While there is currently no known means of prevention, especially for those whose genetics are working against them, there are certain steps one can take to decrease the risk of developing AMD. Poor diet, smoking, obesity & inactivity, and high blood pressure increase one's risk of developing AMD.

Current Conventional Treatments

The literature reports that there are very few possibilities for regaining one's sight for those suffering from AMD, and those vary according to the stage of advancement the condition. Once dry AMD is diagnosed, there are no cures, only treatments for managing it. Barring the intervention of certain nutrients which can be used to hinder its progress to wet AMD, particularly high levels of antioxidants and zinc, there are no therapies or medications that can eliminate the condition.

For those suffering from wet AMD, Laser surgery is one option; however, the laser that seals off leaking blood vessels may cause damage to the retina; if it successfully seals off the leakage. Serious side effects may occur as a result of the surgery, such as a detached retina, cataracts, or eye infection.

The FDA has also approved drugs such as Avastin and Lucentis for use with AMD, these two are commonly thought to be the most effective, which are aimed at treating and managing wet AMD through Photodynamic Therapy, or PDT. During this treatment, the drug, known as a photosensitizing agent, is injected into the eye. A light source is then used as a catalyst, triggering the chemical's cell-killing properties, in this case sealing off leaky blood vessels. This treatment is less invasive than laser therapy though it, too, comes equipped with a list of side effects.

BioAcoustics and Self-Healing

Given the lack of options, the growing numbers of people affected by AMD and the lack of conventional options, the research results at the Sound Health Research Institute prove not only to be innovative, but necessary. Human BioAcoustics is the only non-invasive means of aiding the body in correcting issues thought to be incurable by conventional methods; in particular age-onset macular degeneration.

Several documentaries are available about this work including a three part series by PBS. The Journal of BioAcoustic Biology is available at www.jbab.org. **Doorways to a New Medicine** (video) is available from Amazon. Other videos available from Sound Health: Breaking the Sound Barriers of Disease and Miracles of non-Medicine.

Primary website: www.SoundHealthOptions.com

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