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Integrative Manual Therapy for Visual Improvements

by Kimberly Burnham, PhD, IMTC, LMT

Abstract: The Vision IMT program relies on the expertise of many types of Integrative Medicine practitioners to help improve vision in people with detached retina, lazy eye, visual headaches, migraines with visual auras, cataracts, glaucoma, corneal ulcers, keratoconus, astigmatisms and dyslexia. IMT is also effective for clients with conditions involving an eye component, such as spinal cord injuries, multiple sclerosis, high blood pressure, seizures, tinnitis, Cerebral palsy and Down's syndrome.

Key Words: VisionIMT, Visual Dysfunction, The Eyes, Complementary Medicine Approaches for Vision

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here is a Nicaraguan saying, "Eyes that see do not grow old." Many people are asking themselves and their therapists, "how do we see better as we age rather than face progressive visual loss as the birthdays come and go."

People of all ages are improving their vision through the use of hands-on therapies from the field of Complementary Medicine as well as by shifting their diet / nutrition and doing visual exercises.

American osteopath Eric Dolgin notes, "visual problems are very common in today's society and take many forms. A good number of these go undiagnosed or untreated, but are amenable to osteopathic treatment [manual therapy], including functional eye problems and visual strain." (Dolgin, 2003).

In the Clinical Journal of Pain, Fernandez-de-Las-Penas et al. described the relationship between migraines and the superior oblique muscles of the eyes. "Some patients with trochlear disorders have been found to suffer from concurrent migraine." In this study, "the trochlear region was examined in 20 participants with strictly unilateral migraine without side-shift and in 20 controls. Referred pain, elicited by different maneuvers during manual palpation (ie, maintained pressure, active muscle contraction, and stretching of the superior oblique muscle) was assessed with a visual analog scale. All participants were headache free on the day of evaluation.

Sixteen participants with migraine (80%) perceived re-

ferred pain on examination of the trochlear area. It was described as a tightening sensation in the retro-orbital region, sometimes extending to the supraorbital region and the homolateral forehead. In 15 participants with migraine, both the active contraction and the stretching of the muscle increased the referred pain, which was consistent with definite myofascial trigger points. All the definite trigger points were ipsilateral to the side of the headache. Conversely, only 5 controls (20%) had referred pain."

Researchers concluded, "patients with unilateral migraine commonly perceive referred pain from the trochlear area that probably comes from the myofascial trigger points. Myofascial disorders in the trochlear region might contribute to the perpetuation of concomitant migraine."²

V ision IMT synthesizes the skills of many practitioners, including massage therapists, physical therapists, functional vision experts, and behavioral optometrists. All work towards improving the client's visual function and overall health.³

Integrative Manual Therapy (IMT) clients literally seeing improvements, include both adults and children with visual labels such as detached retina, lazy eye, visual headaches, migraines with visual auras, cataracts, glaucoma, corneal ulcers, keratoconus, astigmatisms and dyslexia. IMT is also effective for clients with conditions involving an eye component, such as spinal cord injuries, multiple sclerosis, high blood pressure, seizures, tinnitis, Cerebral palsy and Down's syndrome.

This integrative approach works for people whose vision has worsened as they have aged as well as those with serious dysfunctions. A 40-something client put it this way, "now for the really exciting news! I saw the optometrist yesterday. Eight months ago I had an extensive eye exam. Since then, my prescription changed .5 diopters and, best

ceive."

2004), which address the ocular muscles and the to the relationship between the iris and the pupil. muscle wall of the blood vessels supplying the eyes. A be effective with vascular headaches.

that's not the case."

A few months later, she continues, "just wanted to let you ence in the healing of visual problems. all know that the appointment with the optometrist went sion Therapy."

as well. Her degree of turn has gone from the new 50 de- a year." gree turn to 45 degrees. Her prescription is also getting better. She was 80/60 and now she's 60/30."

continuing to the back of the head.

the "bone bruise" technique is used to address bone integ-year-old client put her recovery this way, "after 15 hours of

of all, my astigmatism is gone--completely--30 years rity problems of the orbit and face. Additionally, therapists worth. The objective changes are wonderful, but even more look at the way the joints articulate. This biomechanical so, what it means to me is, my vision is literally not so dis- approach can make significant changes to the amount of torted and I can trust what I see. I realize how hugely this space and movement in and around the eye. One way to ties into my trust issues and the ability to trust what I per- focus on eye biomechanics is to look at how the different parts of the eve interface with each other and seeing if there is movement available between the different parts. For exhere are Advanced Strain and Counterstrain tech- ample, consideration is given to the relationship between niques¹ (Giammatteo, 1997) and ² (Wheeler, L. the frontal bone and the zygomas (cheek bones) as well as

number of studies have shown that relaxing the muscles of Often addressed by IMT practitioners is the connective tisthe eyes can significantly improve vision. These easy posi- sue lining of the cranium, the dural or meningeal layers. tional release type techniques address tension in skeletal From their attachment on the posterior aspect of the eye, muscles and the muscle wall of blood vessels and organs the meningeal layers cover the optic nerve and other brain throughout the head and rest of the body. This approach can tissue. These connective tissue layers also attach to the bones of the head.

Strabismus or lazy eye is another problem of the muscles of Infections from the eye can be communicated to the rest of the eye and the way the nervous system interacts with those the brain and spinal cord via the connective tissue. Toxicity muscles. This is one client's report of her daughter's pro- can also affect the eyes secondary to a spinal cord or brain gress: "I am giving T. a little time to adjust to all the tissue infection. There are several hands-on techniques to changes that may have taken place with the intensive IMT address the health of the dura and membrane system of the treatment. I'm anxious to see her progress. I'm already no- eyes, brain and spinal cord. These techniques are aimed ticing that the degree of her eye turn doesn't seem to be as specifically at improving the circulation of cerebral spinal severe. Before her pupil would almost disappear and now fluid and blood flow within the head. Good cranial drainage and adequate arterial blood flow as well as proper lymph and immune function can make a significant differ-

incredible yesterday. The biggest news was that since the A 50 year old woman with a diagnosis of keratoconus, a intensive, [the] degree of eye turn has gone from an 85 de- genetic disorder where the cornea becomes weaker than it gree turn to a 50 degree turn, solely from the Integrative should be said, "I also had nystagmus, where the eyes Manual Therapy treatment. As soon as she gets her new would get twitchy, especially when I was tired. For a while prescription, which should be next week, she will start Vi- the nystagmus was only slightly visible when I was very tired and look to the extreme right side. Now it is completely gone. The keratoconus has stopped degenerating. I Then after a few more months, "T. [has] been making some have virtually no dysfunctional light sensitivity, which is progress. We got her fitted in some glasses that improved usually a big problem. I have had one migraine headache in the rhythms in her eyes. She's been doing Vision Therapy the last 5 years, previous to that I had 3-6 severe migraines

Work can be done with a variety of brainstem mediated reflexes which releases the compression by the muscuhere are a range of IMT techniques addressing the loskeletal tissue on the eyes, optic nerve, blood vessels cranial bones, the sutures and joints of the head and serving the eyes and the visual cortex. This can particularly neck, with specific techniques to address the spheno- help with nystagmus. The eyes are also involved in a numbasilar joint which is located near the optic chiasm, the part ber of reflexes affecting balance, hand eye coordination and of the system where the nerves from each eye meet before upright posture, so balance can improve as vision improves.

Given the number of small bones that make up the orbit of Macular degeneration, the most common cause of blindness the eye, trauma to the bony structure can cause significant in people over 60, is a problem of the nerve part of the eye visual symptoms. Developed by Sharon W. Giammatteo, (macula), which is the central portion of the retina. An 82 IMT treatment, my ophthalmologist said my wet macular dren had 75% improvement; 4 children had 25% improvedegeneration had not worsened in the previous year. I find ment)." (Wong, 2006) that I can read and drive better. Colors seem brighter."

ous system areas are addressed by focusing manually on the smooth hands-on way. Tears have a significant lubricating circadian rhythms of the neural tissue. The ciliary ganglion and immune system function keeping the eyes irritation and and the stellate ganglion seem to both be influenced manu- infection free. These techniques can help with dry eyes. ally resulting in better nerve and eye function.

problems in the eve itself that result in a detached minutes." retina or there can be pressure relationships between the eye and other areas of the body. For example the heart, kidnevs and high blood pressure can contribute to glaucoma. In Integrative Manual Therapy, there are tools to work with process.

laser iridotomy surgery performed for glaucoma, one week 2005). prior to seeing an IMT practitioner and it was looking like that may not be effective in lowering my intraocular pres- "Both green and black teas significantly inhibited diabetic my eyes, and contributed to the stability of my intraocular tions." (Vinson, 2005). pressure. I can only hope it continues." His therapist reeye, his eye pressure started to stabilized."

research on the efficacy of tongue and body acupunc- cus." (Hiratsuka, 2001) ture in affecting visual recovery in children with central and peripheral visual disorders, researchers evaluated and tional visual ability for at least 12 months

"The causes of cortical visual impairment (10) included system and limbic system issues. (Giammatteo, 2001). severe perinatal asphyxia (4), postencephalitis (1), traumatic brain injury (1), hydrocephalus (1), and increased Other exercises help relax the eyes and improve night viintracranial pressure (3). Peripheral causes (2) were due to sion and decrease sun sensitivity on a bright day. congenital optic atrophy.

provement in glucose metabolism in the visual cortex remove your hand and turn back towards the sun, then re-(86%). Seven parents (58%) reported improvement (3 chil- peat by turning your head to the right. Repeat 5-10 times

The neural tissue tension and dysfunction of the eye, optic nerve, optic chiasm, occipital lobe and other central nerv-

As one client put it, "last night I was able to sit down and I here is also a significant pressure component in many read from a book for the first time in a long time. Usually I eye and vision dysfunctions. There can be pressure have too much eye irritation to read for more than a few

MT practitioners may also make recommendations on nutrition. Drinking green tea is beneficial for eye health. "Epigallocatechin gallate (EGCg), the main balancing these pressures and reflex point to help in that polyphenol component of green tea, has several antibacterial properties. Here we show that sub-MICs of EGCg appear to decrease slime production, therefore inhibiting A client with glaucoma, noted his improvements, "I had biofilm formation by ocular staphylococcal" (Blanco,

sure. After the treatment, my entire head felt relaxed most cataracts and caused significant reductions in the biochemiimportantly my eyes. Two days later, I went to the doctor's cal pathway implicated in the development of the patholoffice for a pressure check and it was stabilizing at a nor- ogy. Tea may be a simple, inexpensive means of preventing mal range! I feel the techniques helped revive the cells in or retarding human diabetes and the ensuing complica-

ported, "after doing just work with the muscles of the dia-"In addition to alcohol-induced ocular anomalies among phragms and the cranial work for the blood flow around the children with fetal alcohol syndrome, epidemiologic studies in the past two decades have demonstrated that chronic alcoholism is associated with a significantly increased risk of n other reflex point based, complementary medicine cataract, keratitis, color vision deficiencies and corneal ar-

treated 12 children with visual disorder with static func- he visual component of Reflection Therapy [an IMT self-care program] makes it ideal for helping a variety of visual conditions as well as a range of nervous

Stand facing the sun with your eyes closed. Keep eyes Tongue and body acupuncture consisted of 60 sessions, closed throughout the exercises. Slowly turn your head to with 5 sessions per week. Four children showed clinical or the right. Then cover your eyes with your right hand. Then functional improvement (33%). Of nine children with ab- remove your hand and turn your head back to face the sun. normal visual evoked potentials, five had improvement always keeping your eyes closed. Then turn your head to (56%). Of seven children who underwent PET, six had im- the left. Then cover your eyes with your left hand. Then

several times a day. Each place (facing the sun, turned to the right and turned to the left) should take 3-5 seconds. So 8. one cycle takes 15-20 seconds.

Another exercise from Meir Schneider, helps improve visual acuity and relaxes the muscles of the eyes that help us 9. to focus.

Stand facing away from the sun. Hold your arm out in front of you with your index finger in the air. Slowly swing your 10. Hiratsuka, Y. and G. Li (2001). "Alcohol and eye disfinger and body, rotating the finger in front of you. Swing your finger and body to the right then to the left. As you rotate look at the index finger. Swing from right to left sev- 11. Giammatteo, T. and S. W. Giammatteo (2001). Refleceral times while looking at the index finger. Then continue to swing from right to left but look out to the distance. Re- 12. Meir Schneider at http://www.self-healing.org peat this several times then go back to looking at the index 13. Weiselfish-Giammatteo, S. and T. Giammatteo (2002). finger.2 (Schneider)

An easy home program can improve vision and eye pain. This can be done with Neurofascial Process,3 (Weiselfish-Giammatteo, 2002), where the person places one hand softly over both eyes and the other hand behind them on the low back area, over the ureters (between the kidneys and the bladder). This process facilitates drainage of the eyes and should be done for 15-20 minutes at a time. It can be done daily when you wake up or at another time during the day. The hands can be your hands or you can do this for a child or a friend.

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