

TINNITUS

FDA APPROVED TREATMENT

Finally, you can get relief from Tinnitus



Audiology Associates, PC

Providing Trusted Hearing Healthcare Since 1980

*By
Richard P. Kaner, M.A., FAAA
Founder/Audiologist*

INTRODUCTORY LETTER FROM RICHARD KANER

ABOUT THIS NEW AND IMPROVED SPECIAL TINNITUS REPORT:

As a Clinical Audiologist, one of the most common questions, and complaints, I get from my patients is about the 'ringing' in their ears! Tinnitus (pronounced tin•ni•tus or tin-night-us) is defined as a sensation of sound in your ears, sometimes in your head. Each person with Tinnitus has a different sound experience; for most it is described as a 'ringing' sound, but many patients also report a 'shooshing', 'buzzing', 'wooshing' sound – similar to the sounds inside a conch shell.

Too many people dismiss the ringing, when in fact this sound essentially represents an internal alarm alerting you that something is not as it should be. Whether the Tinnitus is constant, only noticeable in a quiet room or at night, pulsating or seems to have certain triggers (i.e. exercise or caffeine), it is important that the root cause of the problem be determined and a proper treatment plan be put in place with your doctor of audiology.

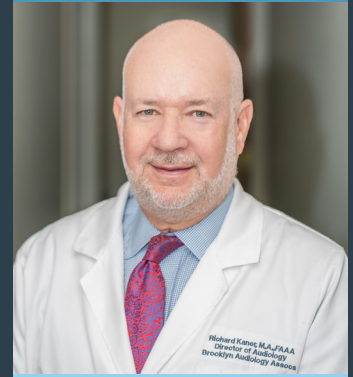
In this report, 'Finally, You Can Get Relief from Tinnitus' I include a comprehensive review of the current scientific literature along with helpful lifestyle tips to reduce your Tinnitus. This report is part of our overall series, including the 9 Life-Changing Tips Proven to Reduce Your Risk of Dementia' and my new book, Break Free of Hearing Loss, to help all members of our community live a stronger, healthier and more fulfilling life as we age.

I believe you will find the information in this report helpful when wanting to learn more about your Tinnitus and when it comes to choosing the right treatment plan for you. I encourage you to take advantage of our courteous offer to provide a hearing evaluation and cognitive assessment for all new patients at no-charge. Feel free to call the office to schedule your appointment.

Sincerely,

Richard P. Kaner

Richard P. Kaner, M.A., FAAA
Founder/Audiologist



**Richard P. Kaner,
M.A., FAAA
Founder
Audiologist**

Richard Kaner is the owner and founder of Brooklyn Audiology Associates – founded over 40 years ago. His mission is and has always been to serve the needs of his patients first. He has remained at the forefront of the latest advancements in treatment and technology for those seeking solutions to their hearing issues. He has received numerous awards and recognition for his contribution to the field of Audiology. Richard has also mentored and trained many of the hearing care professionals in the New York Metro area.

UNDERSTANDING TINNITUS.

The Numbers & the Science

It is currently estimated that nearly 50,000,000 American adults live with Tinnitus. Tinnitus is simply described as the experience of hearing a sound in your ears, sometimes in your head. Tinnitus is also experienced by approximately 80% of people living with hearing loss. Some people only notice their Tinnitus in a quiet room, whereas many others experience the sound all day long – and it can interfere with daily life. In some people, the sound can cause depression, anxiety and affect concentration.

Nearly every patient will ask me “What is causing the ringing in my ears?”. Admittedly, that is not the easiest question to answer. However, it can be answered once the doctor of audiology is able to dig deeper into the symptoms, recognize the individual’s Tinnitus triggers and have a full understanding of the patient’s hearing profile and results of a complete audiological evaluation that includes cognitive function testing.

The most common cause of Tinnitus is damage to the sensory organ of hearing, the cochlea (i.e. the inner ear). The cochlea is to hearing what your eyes are to vision. Within the cochlea are tiny ‘hair-like’ cells called hair cells. When these cells are damaged, the nerves that connect the hair cells to the brain (and give us the ability to hear) become permanently damaged, and often times the ringing will ensue.

The most common cause of damage to our hair cells is aging. Think about it – as we get older, we tend not to see as well or see as sharply as we used to, especially in low-light environments. Unfortunately, the same process happens in our ears as we age and we tend not to hear as clearly, especially in noisy situations.

Other causes of Tinnitus that result in hair cell damage include excessive noise exposure – either a single intense noise (like a shotgun blast) or long-term exposure either from work or play (e.g. musicians, concert attendees, carpenters, machinists, landscapers, etc.). Tinnitus can also result from physical trauma to the head or neck. Physical trauma to the head that can impact hearing and Tinnitus is commonly found in individuals that have been in a car accident or those who have had a slip and fall.



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A smaller percentage of Tinnitus cases are the result of other medical conditions that include: hypertension (high blood pressure), acoustic neuroma (tumor on the hearing nerve), thyroid disease, vascular disorder, temporomandibular joint (TMJ) disorder, ear infection, impacted cerumen (ear wax), nutritional deficiency, aneurysm, multiple sclerosis and other disorders. In some patients, prescription and over-the-counter drugs can result in damage to the auditory system and cause or exacerbate Tinnitus. Ironically, several hundred drugs listed in the Physician's Desk Reference ("PDR") cite Tinnitus as a side effect! In some, but very few of these cases, the Tinnitus may reduce or disappear when the prescribed medication is discontinued.

I hope you can understand and appreciate why I would say that it is rather difficult to answer the question 'What is causing my Tinnitus?' as it can be the result of any number of medical conditions or something as simple as 'too much wax in your ears'. I also hope you have come to realize the seriousness of experiencing Tinnitus and the urgency with which finding the answer to the question must be pursued with your doctor of audiology.

The Theory of Tinnitus:

Tinnitus is most often the result of a 'Central Gain' in neural activity that occurs when there is a loss of proper neural stimulation from the ear (i.e. after there is damage to the hair cells and nerves connecting the ear to the brain). More simply - when the brain is not properly stimulated in individuals with hearing loss (even a mild hearing loss), the brain will increase activity to make up for the missing input.

This 'Central Gain' is neurologically analogous to 'Phantom Limb' phenomenon studied in Neuroscience. In cases where damage occurs to the peripheral nervous system, e.g. when a soldier loses a limb in battle, the central nervous system (aka the brain) will undergo adaptive changes that can often result in the perception of pain.

Our ears do not have traditional 'pain receptors', but rather the perception of 'pain' that results from damage to the hair cells and nerves of the auditory system is perceived as a 'phantom sound' (i.e. Tinnitus). As the brain tries to adapt to the lack of proper stimulation from the ears, it will begin to experience a gain of activity that results in our perception of sound.



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Understanding Tinnitus: Triggers

For many patients, the ringing can be virtually undetectable until a certain 'trigger' ramps up the volume of the sound. Below is a list of the most common triggers patients report as influencing their Tinnitus:

- **Loud noise.** Avoid loud sounds at all costs! The use of power tools, guns, motor cycles, noisy vacuum cleaners, etc. must require the use of hearing protection. While the ringing that occurs after exposure to loud sounds and concerts may seem temporary (often referred to as the 'hearing hangover'), the damage is **PERMANENT**. Hearing protection comes in all shapes and sizes, and they are not all created equally. Ask your doctor of audiology which is best for you and your hearing needs.
- **Excessive use of alcohol** or so-called recreational drugs can exacerbate Tinnitus in some individuals. Toxins introduced to the body can have a range of effects on our nervous system. Alcohol and drugs exert their effects on people by influencing neural activity; thus, Tinnitus is a potential side effect of these toxins.
- **Caffeine**, found in coffee, tea, chocolate and some cola drinks, can also increase Tinnitus. Like most things in life, nothing is that bad for you in moderation. However, when most things are taken in excess, they can have adverse side effects. Caffeine, a nervous system stimulant, can ramp up neural activity and lead to the brain's perception of sound. Fortunately, when Tinnitus results from the ingestion of caffeine, the simple fix is to reduce your intake.
- **Nicotine** has a direct effect on our vascular system. Changes to our vascular system, which are often times permanent from nicotine and smoking, can influence blood flow to the ears – which will have a direct effect on the health of the cochlea and hair cells. This impact can lead to a 'suffocation' of required oxygen to the ear and thereby compromise neural connections to the brain; thus, resulting in Tinnitus.
- **Aspirin, quinine, some antibiotics** and hundreds of other drugs are causative Tinnitus agents and can make existing Tinnitus worse. If you are prescribed medication, always inform your physician and pharmacist of your Tinnitus and discuss the drug and dosage options. Even with Tinnitus, it always makes sense to ensure that your doctor and pharmacists are always in the 'know' about you and any issues you may be dealing with as that information will help them best serve you.
- **Stress.** Managing stress is certainly easier said than done for most of us – but that doesn't take away the importance of learning how to manage and reduce our stress. While we understand very little about 'how' stress impacts the body, we do know that stress can be the root cause for many medical conditions, including Tinnitus.



Understanding Tinnitus: Treatment Options

Unfortunately, too many patients have said to me 'I have Tinnitus, and I've been told there is nothing that I can do about it'. **I emphatically say to each of these patients, and to you – that is not true!** Is there a cure for Tinnitus? No. Are there valid F.D.A. approved treatment options available to reduce, and in some cases, eliminate the ringing? **YES!**

Below are some of the most often asked about treatment options available for managing Tinnitus. I have categorized them based on their scientific findings and effectiveness in research studies.

Tinnitus and NeuroTechnology™

The single most effective treatment option available for patients suffering with Tinnitus is NeuroTechnology™. The F.D.A. (Food and Drug Administration) has approved treatment for individuals with Tinnitus by providing the brain with restored proper stimulation. And while most people with Tinnitus also suffer with hearing loss, that is not always the case. Fortunately, newly available NeuroTechnology™ has been designed for people with hearing loss and with audiometric 'normal hearing'. Many studies show that patients who use this Tinnitus support technology have a significant reduction in their daily Tinnitus experience – with some even reporting that 'the ringing is gone all day.'

Tinnitus and Brain Training:



'Researchers found that patients with Tinnitus, in the group with Tinnitus, had improvements in Tinnitus perception, memory attention, and concentration as compared with patients in the control group'.

Dr. Piccirillo. Journal of American Medical Association, Otolaryngology

Tinnitus can plague patients... and a limited amount may not perceive a significant difference with the use of NeuroTechnology™ to restore stimulation to the auditory system and brain. Fortunately, exciting new research was recently published in the Journal of American Medical Association (JAMA) that indicates a new BrainHQ game can significantly reduce a patient's perception of Tinnitus.

This study, "Cognitive Training For Adults with Bothersome Tinnitus" published in May, 2017, found that using certain brain exercises on the BrainHQ platform can help patient cope with Tinnitus. Yes, the results are the first of their kind, and need more investigation, but the results are promising! On the behavioral and cognitive self-report instruments, researchers reported no significant differences between the group who did the exercises and the control group that did not. But when asked if their Tinnitus had changed since the start of the study, 50% of people who had used the BrainHQ exercises said it had improved, with 30% saying it had much improved.

The scientists also looked at the brains of the study participants with MRI imaging. These MRI images showed significant differences between the two groups: those who used the BrainHQ exercises showed strengthening in areas of the brain associated with control and attention.

There is still significant research to be done in this area - there needs to be new exercises and improvements to the existing set—but seeing brain plasticity in patients with Tinnitus is a great start!

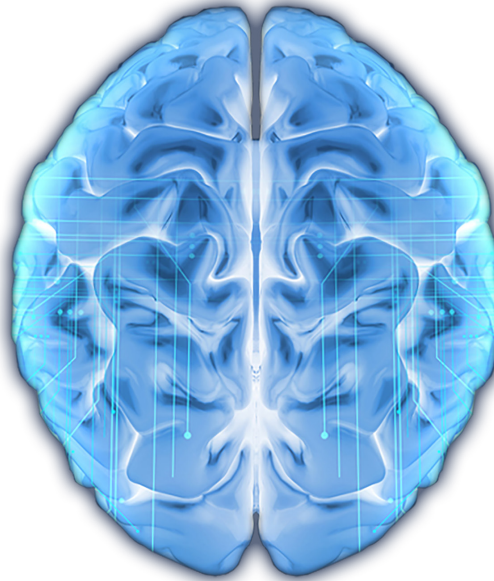
Tinnitus and Surgery

Many patients that are desperate to reduce their Tinnitus will ask if cutting or severing the hearing nerve will eliminate their Tinnitus. This permanent, deafness-producing procedure is not a dependable means of reducing Tinnitus. In fact, the surgical destruction of a person's hearing nerve can often times leave the Tinnitus as the only sound heard (see my notes above about the analogy to 'Phantom Limb').

Tinnitus and Medication

Put bluntly - there are currently ***NO*** FDA-approved drugs specifically for treating Tinnitus. However, there are pharmacological options to address the stress, anxiety and depression that are caused by (and can sometimes exacerbate) Tinnitus.

As noted earlier in the 'Triggers' section, for some people stress can be a source of Tinnitus. Thus, for some people, treatment with low doses of anti-anxiety **drugs** -- such as Valium or antidepressants such as Elavil – can help **reduce Tinnitus**. In limited cases, the use of a steroid placed into the middle ear along with an anti-anxiety medicine has been shown to be effective for some people.



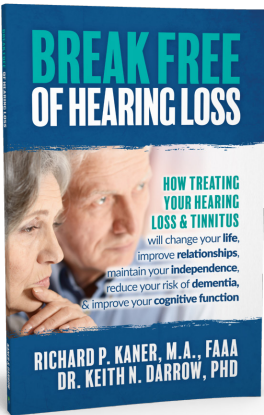


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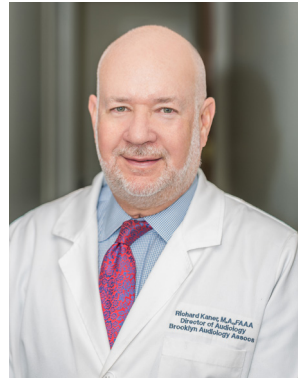
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