

# **Auriculotherapy (Ear Acupuncture)**

Auriculotherapy is the stimulation of the auricle of the external ear for the diagnosis and treatment of health conditions in other parts of the body. It is also known as ear acupuncture or auricular acupuncture when the stimulation is achieved by the insertion of acupuncture needles, whereas the term auriculotherapy often refers to electrical stimulation of the surface of ear reflex points. Specific points on the ear can also be stimulated by manual pressure, referred to as auricular acupressure or ear reflexology. Acupuncture points on the ear can also be stimulated with lasers, magnets, and ear pellets.

Auriculotherapy is typically considered one form of acupuncture, but there are both differences and similarities between the two procedures. Acupuncture is a form of medical treatment involving the stimulation of acupuncture points located on energy channels extending over the surface of the body, which are known as meridians. From the philosophy of Taoism, there are six Yang meridians and six Yin meridians. In classical acupuncture, it is the Yang meridians that directly connect to the external ear. These energy lines of force are blocked or congested when there is some pathology in a specific area of the body. Insertion of acupuncture needles into specific acupoints can relieve the symptoms and underlying pathology of a health problem. Some of the meridian energy lines of force connect to the external ear, thus creating the field of auricular acupuncture. Different perspectives of auriculotherapy focus not on the acupuncture meridians but on the use of the ear as a localized reflex system connected to the central nervous system.

Auriculotherapy is used widely for pain control, addictions of all kinds, internal disorders, emotional issues, and a host of other problems. Medical doctors, chiropractors, acupuncturists, naturopaths, dentists, and laypeople alike routinely see excellent results from properly applied auricular treatments.

# **History**

The earliest written records of ear acupuncture date back to the Yellow Emperor's Classic of Internal Medicine, a compilation of acupuncture procedures that were in practice in 500 BC. Within this extensive text, that covers a variety of acupuncture treatments, there is mention of specific acupuncture points on the external ear for the relief of certain medical disorders. In the West, the earliest references to ear treatments were referred to in medical records from ancient Egypt, Greece, and Rome. The most

complete descriptions of medical treatments through the ear were recorded in ancient Persia. A trail of evidence of the use of auricular stimulation for the treatment of sciatica back pain can be followed from these Persian records through medieval Europe to modern France.

Historically, the ear pavilion was cauterized to treat sciatica or toothache. These techniques were reported in 1850 by Lucciana in Corsica, France; and almost simultaneously by Joseph François Malgaigne, MD, in Paris, France; and Giambattista Borelli, MD, in Turin, Italy. However, because of a lack of objective mechanistic explanations, this technique was never utilized again until 1950, when some nonbiomedical healers from Southeastern France were treating sciatic pain by cauterization of the ear antihelix. That technique was observed by the late French physician Paul Nogier, MD, of Lyon, France, who started a long series of clinical investigations and observations. In 1957, Nogier published in the German Magazine for Acupuncture (Deutsche Zeitschrift für Akupunktur) his first map defining a somatotopic arrangement on the auricle with a drawing made by Gerhard Bachmann. Dr. Nogier's work demonstrated the ear is actually a micro-map of the entire body, with all body parts represented. Thus, all parts of the body can be evaluated and treated by means of the external ear. The publication of Nogier's auricular map led to the very widespread and rapid diffusion of the original Nogier concept in Russia, Japan, and China. The World Health Organization recognized the auricular points in 1987 and developed the First International Nomenclature in 1990.

Anatomically, a primary distinction of the ear pavilion is its composition of thin skin that is firmly attached to fibrous cartilages fixed around the external auditory meatus, which gives the ear pavilion its typical shape. It has a very rich innervation and blood supply. Embryologically, the auricle is only derived from the ectoderm and mesoderm. The four mixed cranial nerves (motor and sensitive roots with ganglions) controlling the four visceral arches give the ear more than half its innervation by the trigeminal (V), facial (VII), glossopharyngeal (IX), and vagal nerves (X), and also the cervical plexus (C2/C3). This composition of nerves allows one to consider this organ as a specific *neurovascular organ*.

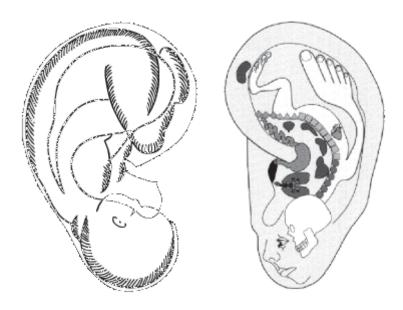
The Traditional Asian Medicine practiced in ancient China included just a scattered array of acupoints on the auricle for just a few health problems, whereas the current practice of auricular acupuncture shows a more complete organization of ear reflex points that can be used to relieve many health problems. Since the 1950's and Nogier's auricular map, the use of specific ear points as a complete reflex system that can alleviate many health problems has been utilized by clinical practitioners in other parts of Europe, in Asia, and in North and South America.

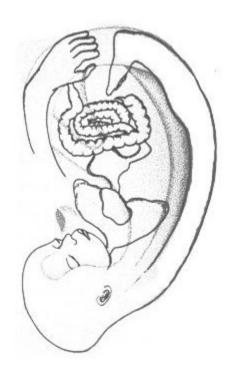
### **Mechanism - Organo-Cutaneous Reflexes**

One of the basic concepts in auriculotherapy is that nerves in the skin overlying specific areas of the external ear correspond to specific parts of the brain, which have reflex connections to the body. Organo-Cutaneous Reflexes are activated when organic pathology in a specific part of the body induce reflex reactions in the external ear, manifested as localized changes in tenderness, altered blood circulation, and electrodermal reactivity. Cutaneo-Organic Reflexes are activated when specific points on the auricle are stimulated to relieve organic pathology in another part of the body.

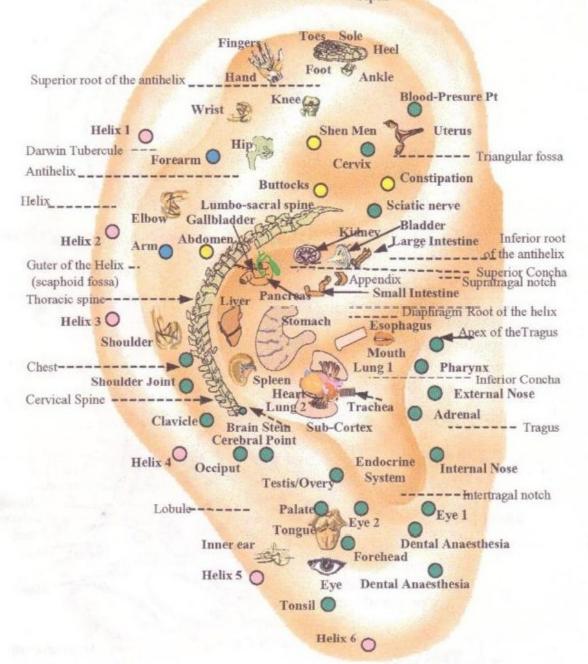
### **Auricular Chart**

In Asian medicine there is a hypothesis related to acupuncture that the auricle is a projection of the functional anatomy of the whole human body. The auricle is a map of the body in an inverted or upside-down fetus pattern. The inverted fetus pattern that is represented on the auricle is referred to as somatotopic inversion. The word "soma" means "body" and the word "topic" refers to a topographic "map." According to this system, areas of the auricle where there is increased electrical conductivity and heightened tenderness to touch correspond to specific areas of the body where there is some pathological condition. The hypothetical map of different bodily regions appears on the external ear as an inverted fetus, with the head represented towards the lower lobule, the hands and feet represented at the uppermost portion of the auricle, and the body in between.





# Allergy Pt O O Apex



#### References and Books

Bourdiol R (1982) *Elements of auriculotherapy*. Moulins-les-Metz, Maisonneuve.

Bucek R (1994) Lehrbuch der ohrakupunktur: eine synopsis der französischen, chinesischen und russischen schulen. Heidelberg, Haug.

Chen K, Cui Y (1991) *Handbook to Chinese auricular therapy*. Beijing, Foreign Languages Press.

Grobglas A, Levy J (1986) *Traité d'acupuncture auriculaire*. Paris, Maloine.

Helms J (1995) Acupuncture energetics: a clinical approach for physicians.

Berkeley, CA, Medical Acupuncture Publishers

Huang H (1974) Ear acupuncture. Emmaus, PA, Rodale Press.

Huang L (1996) *Auriculotherapy diagnosis and treatment*. Bellaire, TX, Longevity Press.

Huang L (1999) Auricular diagnosis. Bellaire, TX, Longevity Press.

Kenyon J (1983) *Modern techniques of acupuncture: a practical scientific guide to electro-acupuncture.* Wellingborough, Thorsons.

König G, Wancura I (1993) *Einführung in die chinesische ohrakupunktur*. Heidelberg, Haug.

Kropej H (1984) The fundamentals of ear acupuncture, 2nd edn. Heidelberg, Haug.

Lu H (1975) A complete textbook of auricular acupuncture. Vancouver, Academy of Oriental Heritage.

Nahemkis A, Smith B (1975) Ear acupuncture therapy. Long Beach, Alba Press.

Nogier P (1968) Handbook to auriculotherapy. Moulins-les-Metz, Maisonneuve.

Nogier P (1972) Treatise of auriculotherapy. Moulins-les-Metz, Maisonneuve.

Nogier P (1983) *From auriculotherapy to auriculomedicine*. Moulins-les-Metz, Maisonneuve.

Nogier P, Nogier R (1985) The man in the ear. Moulins-les-Metz, Maisonneuve.

Nogier P, Petitjean F, Mallard A (1987) *Points réflexes auriculaires*. Moulins-les-Metz, Maisonneuve.

Nogier P, Petitjean F, Mallard A (1989) *Compléments des points réflexes auriculaires*. Moulins-les-Metz, Maisonneuve.

Nogier R (1993) Introduction Practique a l'Auriculomedecine. Heidelberg, Haug.

Niboyet JE. The Lowest Electrical Resistance of Punctiform Surfaces and Cutaneous Routes Corresponding to "Points" and "Meridians": Basis of Acupuncture [in French]. PhD thesis. Marseille, France: Faculty of Sciences; 1963.

Niboyet JE. Recent Data on the Skin Physiology [in French]. Second doctoral thesis. Marseille, France: Faculty of Sciences; 1963

Niboyet JE. The least resistance to electricity of punctiform surfaces and of cutaneous points and meridians: Basis of acupuncture. In: Treatise of Acupuncture [in French]. Maisonneuve: Sainte-Ruffine; 1970:123–350

Oleson T (1995) *International handbook of ear reflex points*. Los Angeles, CA, Health Care Alternatives.

Oleson T. International standardization of auricular acupuncture nomenclature [presentation]. Proceedings of the 7th International Symposium of Auriculotherapy. Lyon, France, June 8–9, 2012:81–94

Oleson T (2003) *Auriculotherapy Manual: Chinese and Western Systems of Ear Acupuncture*. London, Churchill Livingstone.

Oleson T (2003) Manual de Terapia Auricular: Sistemas chino y occidental de acupuntura de la oreja. Los Angeles, CA, Health Care Alternatives.

Pesikov Y, Rybalko S (1994) *Auricular acupuncture: clinical atlas*. Donetsk, Ukraine, Three Dragons Press.

Romoli M (2003) Agopuntura Auriculolare. Torino, Italy, Unione Tipografico-Editrice Torinese.

Rubach A (2001) *Principles of ear acupuncture: microsystem of the auricle*. Stuttgart, Thieme.

Shan Q, Lu M, Xiao F (1996) *Auricular point-pressing therapy*. Jinan, China, Shandong Science and Technology Press.

Strittmatter B (1998) Das storfeld in diagnostik und therapie. Stuttgart, Hippokrates.

Strittmatter B (2001) Taschenatals Ohrakupunktur. Stuttgart, Hippokrates.

Strittmatter B (2001) Ear Acupuncture: A Precise Pocket Atlas. Stuttgart, Thieme.

Stux G, Hammerschlag R, eds. (2001) *Clinical acupuncture: scientific basis*. Heidelberg, Springer.

Terral C. Identification and trial of explanation of the least electrical resistance points of the skin [in French]. MS thesis. Montpellier, France: Faculty of Sciences and of Medicine; 1986.

Terral C, Rabischong P. A scientific basis for acupuncture? J Altern Complement Med. 1997;3(suppl1):S55–S65.

Terral C, Rabischong P. Functional role of least electrical resistance points for the homeostasis regulation [in French]. In: Auricular Acupuncture: Acta of Alba [in French]. Montpellier, France: Sauramps Médical; 2003:132–144.

Terral C. Pain and Acupuncture: From Research to Clinical Practice [in French]. Montpellier, France: Sauramps Médical; 2009

Van Gelder A (1985) Strategieën in de ooracupunctuur. deel 1: Chinese ooracupunctuur. Utrecht, Uitgeverij Lemma.

Van Gelder A (1992) *Strategieën in de ooracupunctuur. deel 2: auriculotherapie*. Utrecht, Uitgeverij Lemma.

Weintraub M, ed. (2001) *Alternative and complementary treatment in neurologic illness*. Philadelphia, Churchill Livingstone.

Wexu M (1975) The ear gateway to balancing the body: a modern guide to ear acupuncture. New York, ASI Publishers.

Woo PJ (1998) *Omni Auricular Therapy* Moscow, Su Jok Academy. Zhaohao W, Minghua L, Chichun C (1991) *Pratique de l'acupuncture auriculaire*. Paris, Libraire You Feng.

# **Auriculotherapy Articles**

Alimi D, Geissmann A, Gardeur D (2002) Auricular acupuncture stimulation measured on functional magnetic resonance imaging. *Med Acupunc* 13: 18–21.

Asamoto S, Takeshige C (1992) Activation of the satiety center by auricular acupuncture point stimulation. *Brain Res Bull* 29: 157–164.

### http://www.sciencedirect.com/science/article/pii/0361923092900210

Asher, Gary N., et al. "Auriculotherapy for pain management: a systematic review and meta-analysis of randomized controlled trials." *The Journal of Alternative and Complementary Medicine* 16.10 (2010): 1097-1108.

http://online.liebertpub.com/doi/abs/10.1089/acm.2009.0451

Chen H (1993) Recent studies on auriculoacupuncture and its mechanism. *J Trad Chin Med* 13: 129–143.

http://europepmc.org/abstract/med/8412288

Choy D, Eidenschenk E (1998) Effect of tragus clips on gastric peristalsis: a pilot study. *J Altern Compl Med* 4: 399–403.

http://online.liebertpub.com/doi/abs/10.1089/acm.1998.4.399

Cox B (1975) Patient motivation: a factor in weight reduction with auricular acupuncture. *Am J Acupunct* 3: 339–341.

Dale R (1976) The micro-acupuncture systems, parts I & II. *Am J Acupunct* 4: 7–24; 196–224.

Dale R (1985) The micro-acupuncture meridians. Intl J Chin Med 2: 31–49.

Dale R (1991) Acupuncture meridians and the homunculus principle. *Am J Acupunct* 19: 73–75.

Dale R (1999) The systems, holograms and theory of micro-acupuncture. *Am J Acupunct* 27: 207–242.

Debreceni L (1991) The effect of electrical stimulation of the ear points on the plasma ACTH and GH level in humans. *Acupunct Electrotherap Res* 16: 45–51.

http://www.ingentaconnect.com/content/cog/aetr/1991/00000016/F0020001/art00006

Fedoseeva O, Kalyuzhnyi L, Sudakov K (1990) New peptide mechanisms of auriculo-acupuncture electro-analgesia: role of angiotensin II. *Acupunct Electrotherap Res*15:1–8.

http://www.ingentaconnect.com/content/cog/aetr/1990/00000015/00000001/art00001

Fossion J.P. Activity of the Helix in Ear Acupuncture: Corresponding to the Segmental Innervation of the Human Body?: Part I Clinical Observations

Deutsche Zeitschrift für Akupunktur, Volume 53, Issue 3, 2010, pp. 6-12

https://www.sciencedirect.com/science/article/pii/S0415641210002195

- Giller R (1975) Auricular acupuncture and weight reduction. A review and overall approach. *Am J Acupunct* 3: 151–153.
- Wei He, Xiaoyu Wang, Hong Shi, Hongyan Shang, Liang Li, Xianghong Jing, Bing Zhu, Auricular Acupuncture and Vagal Regulation, *Evidence-Based Complementary and Alternative Medicine*, 2012, **2012**, 1
- Holder J, Duncan R, Gissen M, Miller M, Blum K (2001) Increasing retention rates among the chemically dependent in residential treatment: auriculotherapy and subluxation-based chiropractic care. *Molec Psychiatry* 6: S8.
- http://www.torquerelease.com.au/Molecular-Psychiatry-TRT-Research.pdf
- Jaung-Geng L, Salahin H, Jung-Charng L (1995) Investigation on the effects of ear acupressure on exercise-induced lactic acid levels and the implications for athletic training. *Am J Acupunct* 23: 309–313.
- Kawakaita K, Kawamura H, Keino H, Hongo T, Kitakohji, H (1991) Development of the low impedance points in the auricular skin of experimental peritonitis rats.

  Am J Chin Med 19: 199–205.
- http://www.worldscientific.com/doi/abs/10.1142/S0192415X91000272
- Kho H, Robertson E (1997) The mechanisms of acupuncture analgesia: review and update. *Am J Acupunct* 25: 261–281.
- Kitade T, Hyodo M (1979) The effects of stimulation of ear acupuncture points on the body's pain threshold. *Am J Chin Med* 7: 241–252.
- http://www.worldscientific.com/doi/abs/10.1142/S0192415X79000209
- Krause A, Clelland J, Knowles C, Jackson J (1987) Effects of unilateral and bilateral auricular transcutaneous electrical stimulation on cutaneous pain threshold. *Physical Therapy* 67: 507–511.
- https://academic.oup.com/ptj/article-abstract/67/4/507/2728197
- Kroening R, Oleson T (1985) Rapid narcotic detoxification in chronic pain patients treated with auricular electroacupuncture and naloxone. *Intl J Addict* 20: 1347–1360.
- http://www.tandfonline.com/doi/abs/10.3109/10826088509047771
- Kvirchishvili V (1974) Projections of different parts of the body on the surface of the concha auriculae in humans and animals. *Am J Acupunct* 2: 208.

.

- Leib S (1999) Nogier's three functional layers to evaluate conventional medications. International Consensus Conference on Acupuncture, Auriculotherapy, and Auricular Medicine. Las Vegas, NV: 59–60.
- Lichstein E, Chaddie K, Naik D, Gupta P (1974) Diagonal earlobe crease: prevalence and implications as a coronary risk factor. *New Engl J Med* 290: 615–616. http://www.nejm.org/doi/pdf/10.1056/NEJM197403142901109
- Lin C (1984) Use of auricular acupuncture for the relief of tooth pain. *Am J Acupunct* 12: 239–244.
- Lorna K.P. Suen, Thomas K.S. Wong, Albert W.N. Leung. (2002) Effectiveness of Auricular Therapy on Sleep Promotion in the Elderly. The American Journal of Chinese Medicine 30:04, 429-449. Online publication date: 1-Jan-2002.
- http://www.worldscientific.com/doi/pdf/10.1142/S0192415X0200051X
- Margolin A, Chung P, Avants S, Kosten T (1993a) Effects of sham and real auricular needling: implications for trials of acupuncture for cocaine addiction. *Am J Chin Med* 221: 191–197.
- http://www.worldscientific.com/doi/abs/10.1142/S0192415X93000133
- Margolin A, Avants S, Chung P, Kosten T (1993b) Acupuncture for the treatment of cocaine dependence in methadone-maintained patients. *Am J Addict* 2: 194–201.
- Mehta J, Homby R (1974) Diagonal earlobe crease as a coronary risk factor. New Engl J Med 291: 260.
- http://europepmc.org/abstract/med/4834757
- Ng L, Douthitt T, Thoa N, Albert C (1975) Modification of morphine-withdrawal in rats following transauricular electrostimulation: an experimental paradigm for auricular electroacupuncture. *Biol Psychiatr* 10: 575–580.
- http://europepmc.org/abstract/med/1237325
- Ng L, Dionne R, Bragin E, Pert C, Pert A (1981) Alterations in rat central nervous system endorphins following transauricular acupuncture. *Brain Res* 224: 83–93. http://www.sciencedirect.com/science/article/pii/0006899381911185
- Niemtzow RC (1998) A high-protein regimen and auriculomedicine for the treatment of obesity: a clinical observation. *Med Acupunct* 9: 15–21.
- http://www.n5ev.com/uploads/3/0/9/7/30974833/obesity\_-a\_clinical\_observation\_-\_\_part\_1.pdf

- Oleson T (1998) Differential application of auricular acupuncture for myofascial, autonomic, and neuropathic pain. *Med Acupunct* 9: 23–28.
- Oleson T, Flocco W (1993) Randomized controlled study of premenstrual symptoms treated with ear, hand, and foot reflexology. *Obstet Gynecol* 82: 906–911.
- http://journals.lww.com/greenjournal/abstract/1993/12000/ randomized controlled study of premenstrual.5.aspx
- Oleson T, Kroening R (1983a) A comparison of Chinese and Nogier auricular acupuncture points. *Am J Acupunct* 11: 205–223.
- Oleson T, Kroening R (1983b) A new nomenclature for identifying Chinese and Nogier auricular acupuncture points. *Am J Acupunct* 12: 325–344.
- Oleson T, Kroening R (1983c) Electroacupuncture and auricular electrical stimulation. *IEEE Eng Med Biol Mag* 2: 22–26.
- http://ieeexplore.ieee.org/abstract/document/5005987/
- Oleson T, Kroening R, Bresler D (1980) An experimental evaluation of auricular diagnosis: the somatotopic mapping of musculoskeletal pain at ear acupuncture points. *Pain* 8: 217–229.
- http://www.sciencedirect.com/science/article/pii/0304395988900097
- Oleson, Terry. "Standardized Ear Acupuncture Nomenclature Utilizing Auricular Landmarks and 3-D Graphic Imaging for Delineating Different Auricular Zones." *Medical Acupuncture*26.2 (2014): 103-117.
- http://online.liebertpub.com/doi/abs/10.1089/acu.2014.1040
- Oliveri A, Clelland J, Jackson J, Knowles C (1986) Effects of auricular transcutaneous electrical stimulation on experimental pain threshold. *Physical Ther* 66: 12–16. <a href="https://academic.oup.com/ptj/article-abstract/66/1/12/2727893">https://academic.oup.com/ptj/article-abstract/66/1/12/2727893</a>
- Pert A, Dionne R, Ng L et al (1981) Alterations in rat central nervous system endorphins following transauricular electroacupuncture. *Brain Res* 224: 83–93.

http://www.sciencedirect.com/science/article/pii/0006899381911185

Rabischong P, Terral C. Scientific Basis of Auriculotherapy: State of the Art. *Medical Acupuncture*. 2014;26(2):84-96. doi:10.1089/acu.2014.1038. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3976599/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3976599/</a>

Richards D, Marley J (1998) Stimulation of auricular acupuncture points in weight loss. *Austral Family Phys* 27 (suppl 2): S73–S77.

http://europepmc.org/abstract/med/9679359

- Romoli, M, Vettoni F (1982) Alterations in the skin of the auricle and correlation with chronic disease. *Minerva Med* 73: 725–730.
- Sacks L (1975) Drug addiction, alcoholism, smoking, obesity treated by auricular staplepuncture. *Am J Acupunct* 3: 147–150.
- Saku K, Mukaino Y, Ying H, Arakwa K (1993) Characteristics of reactive electropermeable points on the auricles of coronary heart disease patients. *Clin Cardiol* 16: 415–419.

http://onlinelibrary.wiley.com/doi/10.1002/clc.4960160509/full

- Schjelderup V (1982) The principle of holography: a key to holistic approach in medicine. *Am J Acupunct* 10: 167–171.
- Shiraishi T, Onoe M, Kojima T, Sameshima Y, Kageyama T (1995) Effects of auricular stimulation on feeding-related hypothalamic neuronal activity in normal and obese rats. *Brain Res Bull* 36: 141–148.

http://www.sciencedirect.com/science/article/pii/0361923094001795

- Simmons M, Oleson T (1993) Auricular electrical stimulation and dental pain threshold. *Anesth Progr* 40: 14–19.
- Suen, Lorna KP, et al. "Auriculotherapy on low back pain in the elderly." *Complementary therapies in clinical practice* 13.1 (2007): 63-69.

Usichenko, Taras et al. Transcutaneous auricular vagal nerve stimulation (taVNS) might be a mechanism behind the analgesic effects of auricular acupuncture. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, Volume 10, Issue 6, 1042 – 1044; 2017.

http://www.brainstimjrnl.com/article/S1935-861X(17)30853-7/fulltext

Usichenko, T. et al. P083 Method for continuous multichannel measurement of impedance at the auricular sites innervated by various cranial nerves. Clinical Neurophysiology , Volume 128 , Issue 3 , e47 - e48.

http://www.clinph-journal.com/article/S1388-2457(16)30784-2/pdf

Young M, McCarthy P (1998) Effect of acupuncture stimulation of the auricular sympathetic point on evoked sudomotor response. *J Altern Compl Med* 4: 29–38. http://online.liebertpub.com/doi/abs/10.1089/acm.1998.4.1-29 Yeh, Chao Hsing, et al. "Auricular point acupressure to manage aromatase inhibitor-induced arthralgia in postmenopausal breast cancer survivors: A pilot study." *Oncology Nursing Forum*. Vol. 44. No. 4. Oncology Nursing Society, 2017. <a href="https://jhu.pure.elsevier.com/en/publications/auricular-point-acupressure-to-manage-aromatase-inhibitor-induced">https://jhu.pure.elsevier.com/en/publications/auricular-point-acupressure-to-manage-aromatase-inhibitor-induced</a>

Zhang YQ (1980) [A new micro-acupuncture system and another general law of distribution of acupoints besides that of the meridian-following distribution – the second metacarpal side therapy and the holographic law of distribution of acupoints.] (in Chinese) Wulanchabu Sci Tech 1: 38.

Zhou L (1995) Supplementary comments on the standardization of auricular points. *J Trad Chin Med* 15: 132–134.

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