

HOME ACUPUNCTURE BLOG LOCATIONS LINKS

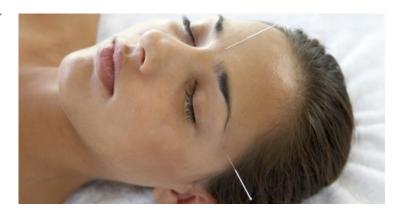
The Science of Acupuncture Home The Science of Acupuncture

To search type and hit enter...



04 NOV 14

0 comments



The Science of Acupuncture

"The Science of Acupuncture" by Sara Adaes, PhD (c) | October 21, 2014 http://brainblogger.com/2014/10/21/the-science-of-acupuncture/

Acupuncture has been used in traditional Chinese medicine for over 2,000 years. In the Western world, acupuncture has been a highly controversial therapy, mostly due to the lack of scientific explanations for its mechanisms of action. Nevertheless, acupuncture has become increasingly accepted, having spread worldwide and having become a frequently sought-after alternative therapy.

In 1997, the National Institutes of Health (NIH) Consensus Development Program recognised acupuncture as a therapeutic intervention of complementary medicine. The World Health Organisation (WHO) now recommends the use of acupuncture for treatment of numerous diseases and symptoms associated with cardiovascular, neurological, musculoskeletal, respiratory, gastrointestinal, gynaecological and psychological disorders.

It is estimated that 3 million adults in the USA receive acupuncture treatments each year, with chronic pain being the most common reason for seeking this therapy. In fact, the efficacy of acupuncture in diverse painful conditions is now widely recognised, having earned the denomination "acupuncture analgesia". An estimate of 50% to 85% of chronic pain patients seem to benefit from acupuncture.

Although acupuncture analgesia may have an important psychological component, increasing evidence has been demonstrating that the analgesic effect of acupuncture may indeed be due to a physiological action. The increasingly generalised use of acupuncture has stimulated research on the physiological and biochemical mechanisms underlying acupuncture analgesia. In the last decades, there has been a rapid development of our knowledge of the neurological processes induced by acupuncture. Although a consensual theory is still lacking, many hypotheses have been proposed for the mechanisms of acupuncture analgesia.

Acupuncture points seem to be special sites with denser sensory innervation and connective tissue, and a richer content of TRPV1 receptors, which are important players in pain mechanisms. The insertion of a needle into these points acts as a mechanical stimulus that activates the mechanoreceptors and sends afferent signals to the central nervous system, to areas involved in pain processing. Neurochemical processes of pain modulation are consequently activated, inducing acupuncture analgesia.

Categories

M

Dundrum Cli	nic	Events	•	General	Health
Maynooth Cli	Maynooth Clinic News		Social Media News		
Trim Clinic	Uncategorized		d Video Blog Posts		

lost Commented			
New location – the acupuncture clinic in Dundrum 2 years ago	2		
Share Your Experience			
2 years ago			
Chinese New Year – The Year of the Sheep			
3 years ago			

2779
2564
2336

Archives

October 2017	August 2017
July 2017	June 2017
November 2016	October 2016
September 2016	August 2016
July 2016	June 2016

The Science of Acupuncture - BBC Documentary

April 2016

July 2015

April 2015

February 2015

December 2014

October 2014

July 2014

March 2014

Make An Appointment

For more information, please contact us:

by e-mail: Email us

by phone: 01 6856966 :::: 087 2320994

or fill in the form on contact page

January 2016

March 2016

August 2015

June 2015

March 2015

January 2015

August 2014

June 2014

November 2014

Both clinical and laboratory data indicate that the endogenous opioid system participates in acupuncture analgesia. In fact, a reduced need for opioid-like-medication in patients with chronic pain after acupuncture treatment has been reported. The noradrenergic system has also been associated with acupuncture analgesia in experimental studies, where a decreased level of noradrenaline in the brain was observed after acupuncture-induced analgesia. Studies in animal models of inflammatory and neuropathic pain have also found evidence for a role of serotonin and glutamate in acupuncture analgesia. Other pain mediators that have been suggested to be modulated by acupuncture include somatostatin, cannabinoids, and neurotrophic factors. However, clinical studies supporting these theories are still lacking.

Experimental models of pain have also indicated that acupuncture may have an antiinflammatory action by having a modulatory effect on the release of pro-inflammatory mediators. These results have been supported by clinical findings showing a reduction in the production of pro-inflammatory molecules after acupuncture in patients with osteoarthritic pain and chronic pelvic pain syndrome.

Despite these recent advances in the understanding of the mechanisms of acupuncture analgesia, there is still a lot of ground to break. What seems to be clear is that, regardless of how that happens, acupuncture works. And there's no harm in trying it.

References

Leung L (2012). Neurophysiological basis of acupuncture-induced analgesia-an updated review. Journal of acupuncture and meridian studies, 5 (6), 261-70 PMID: 23265077

Vickers AJ, Cronin AM, Maschino AC, Lewith G, MacPherson H, Foster NE, Sherman KJ, Witt CM, Linde K, & Acupuncture Trialists' Collaboration (2012). Acupuncture for chronic pain: individual patient data meta-analysis. Archives of internal medicine, 172 (19), 1444-53 PMID: 22965186

Vickers AJ, & Linde K (2014). Acupuncture for chronic pain. JAMA : the journal of the American Medical Association, 311 (9), 955-6 PMID: 24595780

Zhang R, Lao L, Ren K, & Berman BM (2014). Mechanisms of acupunctureelectroacupuncture on persistent pain. Anesthesiology, 120 (2), 482-503 PMID: 24322588

Zhao ZQ (2008). Neural mechanism underlying acupuncture analgesia. Progress in neurobiology, 85 (4), 355-75 PMID: 18582529

► Follow	<u>/→</u>	e this. weet Save G+ Share ed by <u>Sandro Graca</u>	
Follow Like Share	Tweet Save G	+ Share	
Our Expertise		Fully Licensed	Useful Links More information & resources
The Acupuncture Clinic		Latest Posts	Latest Tweets
	01 6856966 087 2320994 Email	Sandro Graca – ICCM Ambassador 7 months ago Podcast: Acupuncture for fertility – female menstrual health 9 months ago Acupuncture for prostatitis – vlog #22 and #23 10 months ago	30% off coupon expires today (wellit is set for 11:59pm PST, so we get 8 extra hours!) If like @siobhanseville a t.co/eQxJkS2oIt 3 months ago Amazing! @DrLorneBrown just told us that @ProDSeminars have extended their 30% sale until Feb 28th!! Tons of onlin t.co/Hy05SGb8IX 3 months ago

To warm the cockles of your heart 🥋 🥋 See more... t.co/REam0p1Qky 3 months ago

Copyright - TCM Ireland Clinics by Sandro Graca

2/3