

陳治中助理教授

聯絡資訊

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主要學歷

英國利茲貝克特大學健康科學所博士

英國甌斯特大學復健科學所碩士

國立臺灣大學物理治療所碩士

私立中山醫學院復健醫學系物理治療組學士

專長領域

物理因子學、肌肉疼痛、神經疼痛、骨科物理治療

Recent Publication

A. 期刊論文發表

2017

18. Chuang LL, Chen YL, Chen CC, Li YC, Wong AM, Hsu AL, Chang YJ. (2017) Effect of EMG-triggered neuromuscular electrical stimulation with bilateral arm training on hemiplegic shoulder pain and arm function after stroke: a randomized controlled trial. *Journal of NeuroEngineering and Rehabilitation*, 14(1):122. (SCIE: 3.516(2016), REHABILITATION Q1:1/65) <https://doi.org/10.1186/s12984-017-0332-0>
17. Huang ACW, He A, Chen CC. (2017) An examination of the roles of glutamate and sex in latent inhibition: relevance to the glutamate hypothesis of schizophrenia? *Psychiatry Research*, 256:46-52. (SCIE: 2.528 (2016), PSYCHIATRY Q2: 65/142)

2016

16. Chen CC*, Chuang YF, Huang ACW, Chen CK, Chang YJ. (2016) The analgesic effects of non-invasive physical modalities on central post-stroke pain: a systematic review. *The Journal of Physical Therapy Science*, 28: (in press) (SCIE: 0.394 (2014), REHABILITATION Q4: 61/64) doi: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4868245/pdf/jpts-28-1368.pdf>

2015

15. Chen CC*, Huang WB, Chuang YF, Huang ACW, Chang YJ. (2015) Effects of transcutaneous electrical nerve stimulation on experimental blunt pressure pain in healthy participants in randomized controlled trial: pulse frequency and pad size. *Journal of Medical and Biological Engineering*, 35(4): 500-509. (SCIE: 0.971 (2014), ENGINEERING, BIOMEDICAL Q4: 62/76, citation: 0/ScopusMarch2016). doi:10.1007/s40846-015-0062-3
14. Fang CY, Hsu MJ, Chen CC, Cheng HYK, Chou CC, Chang YJ*. (2015) Robot-assisted passive exercise for ankle hypertonia in individuals with chronic spinal cord injury. *Journal of Medical and Biological Engineering*, 35(4): 464-472. (SCIE: 0.971 (2014), ENGINEERING, BIOMEDICAL Q4: 62/76, citation:0/ScopusMarch2016). doi:10.1007/s40846-015-0059-y
13. Chen CC, Chuang YF, Yang HC, Hsu MJ, Huang YZ, Chang YJ*. (2015) Neuromuscular electrical stimulation of the median nerve facilitates low motor cortex excitability in patients with spinocerebellar ataxia. *Journal of Electromyography and Kinesiology*, 25(1): 143-150. (SCIE: 1.647

(2014), REHABILITATION Q2: 25/64, citation:1/ScopusMarch2016). doi:<http://dx.doi.org/10.1016/j.jelekin.2014.10.009>

2014

12. Lin PS, Lin TC, Chen CC, Chi SF, Chen CK, Wong AMK. (2014) An Simplified Comprehensive Assessment Tool for Long-term Care Residents in Taiwan. *Taiwan Journal of Physical Medicine and Rehabilitation*, 42(1): 41-50.

2012

11. Wang YC, He BH, Chen CC, Huang ACW, Yeh YC*. (2012) Gender differences in the effects of presynaptic and postsynaptic dopamine agonists on latent inhibition in rats. *Neuroscience Letters*, 513(2): 114-118. (SCIE: 2.026 (2012), NEUROSCIENCES Q3: 173/252, citation:3/ScopusMarch2016). doi:<http://dx.doi.org/10.1016/j.neulet.2012.01.047>

2011

10. Chen CC, Johnson MI*. (2011) Differential frequency effects of strong nonpainful transcutaneous electrical nerve stimulation on experimentally induced ischemic pain in healthy human participants. *The Clinical Journal of Pain*, 27(5): 434-441. (SCIE: 2.813 (2011), ANESTHESIOLOGY Q2: 11/30, citation:10/ScopusMarch2016). doi:10.1097/AJP.0b013e318208c926
9. 陳治中。中風後中樞痛的治療：非侵入性物理治療儀器療法的介紹。長庚醫訊 32(8):25-26, 2011

2010

8. Chen CC, Johnson MI*. (2010a) A comparison of transcutaneous electrical nerve stimulation (TENS) at 3 and 80 pulses per second on cold-pressor pain in healthy human participants. *Clinical Physiology and Functional Imaging*, 30(4): 260-268. (SCIE: 1.302 (2010), PHYSIOLOGY Q4: 66/83, citation:10/ScopusMarch2016). doi:10.1111/j.1475-097X.2010.00936.x
7. Chen CC, Johnson MI*. (2010b) An investigation into the hypoalgesic effects of high- and low-frequency transcutaneous electrical nerve stimulation (TENS) on experimentally-induced blunt pressure pain in healthy human participants. *The Journal of Pain*, 11(1): 53-61. (SCIE: 4.851 (2010), CLINICAL NEUROLOGY Q1: 29/192, citation:30/ScopusMarch2016). doi:<http://dx.doi.org/10.1016/j.jpain.2009.05.008>

2009

6. Chen CC, Johnson MI*. (2009) An investigation into the effects of frequency-modulated transcutaneous electrical nerve stimulation (TENS) on experimentally-induced pressure pain in healthy human participants. *The Journal of Pain*, 10(10): 1029-1037. (SCIE: 3.778 (2009), CLINICAL NEUROLOGY Q1: 29/192, citation:20/ScopusMarch2016). doi:<http://dx.doi.org/10.1016/j.jpain.2009.03.008>

Before 2008

5. Chen CC*, Tabasam G, Johnson MI. (2008) Does the pulse frequency of transcutaneous electrical nerve stimulation (TENS) influence hypoalgesia? : a systematic review of studies using experimental pain and healthy human participants. *Physiotherapy*, 94(1): 11-20. (SCIE: 0.561 (2008), REHABILITATION Q3: 22/33, citation:28/ScopusMarch2016). doi: 10.1016/j.physio.2006.12.011
4. Chen CC*, Johnson MI, McDonough S, Cramp F. (2007) The effect of transcutaneous electrical nerve stimulation on local and distal cutaneous blood flow following a prolonged heat stimulus in healthy subjects. *Clinical Physiology and Functional Imaging*, 27(3): 154-161. (SCIE: 1.000 (2007), PHYSIOLOGY Q4: 66/83, citation:13/ScopusMarch2016).
3. Wang SF, Chen CC, Liao WS, Shyu BC*. (2005) Different types of variant muscle nociception after intermittent and continuous neuromuscular

- stimulation in rats. *Journal of Biomedical Science*, 12(3): 467-479. (SCIE: 1.995(2005), MEDICINE, RESEARCH & EXPERIMENTAL Q3: 50/93, citation: 4/ScopusMarch2016).
2. Wu YT*, Chen CC. (1998) Introduction to ISO accreditation system: applications of quality management in physical therapy. *Formosa Journal of Physical Therapy*, 23(2): 141-7.
 1. Chuang LL, Hu MH, Hwang AW, Chen CC, Lin CM, Jian DW. (1998) The effect of age on standing stability limits. *Formosa Journal of Physical Therapy*, 23(2): 73-82.

B.會議論文

國內會議

1. Shih YC, Chen CC*, Huang ACW, Liu YL. The selectivity of opioid receptor antagonists to validated mu-opioid agonist on insular cortex in an induced thalamic hemorrhagic rat model of central post-stroke pain (CPSP). Poster Presentation. Tao-Yuan, 2nd Academic Meeting, Chang Gung University, 2013.
2. Shih YC, Chen CC*, Huang ACW, Liu YL. The selectivity of opioid receptor antagonists to validated mu-opioid agonist on insular cortex in an induced thalamic hemorrhagic rat model of central post-stroke pain (CPSP). Oral Presentation (O7). Taipei, 66th academic meeting, March 23rd, 2013.
3. Chen CC*, Chuang YF. The antalgic effects of non-invasive physical modalities (NIPM) on central post-stroke pain (CPSP): a systematic review. Poster Presentation (Demo). Tao-Yuan, 1st Academic Meeting, Chang Gung University, 2012.
4. Chen CC*, Chuang YF. The antalgic effects of non-invasive physical modalities (NIPM) on central post-stroke pain (CPSP): a systematic review. Poster Presentation (P30). Tao-Yuan, 63th Annual meeting, PTAROC, Sept 24th, 2011.
5. Huang WP, Liang CL, Yeh YP, Kuo HL, Chuang YF, Chen CC*. The hypoalgesic effects of the electrical characteristics of transcutaneous electrical nerve stimulation (TENS) : pulse frequency and electrode size. Poster Presentation (P40). Tao-Yuan, 63th Annual meeting, PTAROC, Sept 24th, 2011
6. Su SF, Cheng HC, Kou FC, Chen CC*. The hypoalgesic effects of four modes of transcutaneous electrical nerve stimulation (TENS) on healthy humans: a pilot study upon the RIII Nociceptive Reflex. Poster Presentation. 61th Academic meeting, Tainan, PTAROC, 2010

國外會議

1. Chen CC, Benham A, Tabasam G, Marchant P, Johnson M. The hypoalgesic effects of high and low frequency Transcutaneous Electrical Nerve Stimulation (TENS) on cold induced pain in healthy human participants. Annual academic conference, The British Pain Society, May 16th-19th, 2008, Liverpool, United Kingdom.
2. Chen CC, Cramp F, McDonough S, Johnson M. A comparison of high and low frequencies of transcutaneous electrical nerve stimulation (TENS) on cutaneous circulation. Annual academic conference, The British Pain Society, March 8-11 2005, Edinburgh, United Kingdom.
3. Chen CC, Tabasam G, Johnson M. A systematic review of the hypoalgesic effect of different pulse frequencies of transcutaneous electrical nerve stimulation: healthy human studies. Annual academic conference, The British Pain Society, March 8-11 2005, Edinburgh, United Kingdom.
4. Chen CC, Tabasam G, Johnson M. The hypoalgesic effects of transcutaneous electrical stimulation (TENS) at frequency: a systematic review on healthy humans. Annual academic conference, Leeds Metropolitan University, May 24-26, 2004, Headingley, Leeds, United Kingdom.
5. Chen CC, Tabasam G, Johnson M. The hypoalgesic effects of transcutaneous electrical stimulation (TENS) at frequency: a systematic review on healthy humans. Annual academic conference, The British Pain Society. May, 2004. Harrogate, United Kingdom.
6. Chen CC, Wang SF, Chien CC, Shyu BC. The induction of FOS in dorsal horn neurones by maximal muscle contraction with median frequency of electrical stimulation. The 9th World Congress, International Association for the Study of Pain. Austria, August, 1999.

C.專利

1.陳治中(主要發明人)。羈遊式電刺激模式裝置。專利申請案號 100212252。專利證書號 M424959。專利權法定日 2012/3/21 至 2021/7/4。

D.參與研究計畫一覽表

計畫名稱	計畫內擔	起迄年月	補助或委託機構	計畫編號	執行情形
(科)深層電刺激背部多裂肌與胸腰肌筋膜線治療慢性下背痛病人的療效探討(1/1)	主持人	2016/01/01~ 2016/12/31	財團法人長庚紀念醫院	CMRPD1F0071	執行中
建立健康照護器材技術平台以增進企業產品應用附加價值	主持人	2015/11/01~ 2016/10/31	科技部	104-2622-B-182-003-CC3	執行中
深層肌筋膜之機械型態阻抗等物理特性於胸腰肌膜的量測	共同主持人	2014/08/01~ 2015/10/31	科技部	103-2314-B-002-022	已結案
物理治療非侵入性電療治療深度的探討	主持人	2014/01/01~ 2014/12/31	財團法人長庚紀念醫院	CMRPD1D0171	已結案
使用中風後中樞痛出血性大白鼠模型探討非侵入性物理因子療法的鎮痛機制(2/2)	主持人	2012/10/1 ~2013/9/30	財團法人長庚紀念醫院	CMRPD1A0392	已結案
使用中風後中樞痛出血性大白鼠模型探討非侵入性物理因子療法的鎮痛機制(1/2)	主持人	2011/10/1 ~ 2012/9/30	財團法人長庚紀念醫院	CMRPD1A0391	已結案
經皮電神經刺激之參數對止痛效果的影響: 刺激頻率 v.s. 電極大小	主持人	2011/1/1 ~2011/11/30	弘光科技大學	98-B-023	已結案

E.專業證照

級別	證書字號	核發機關	起算(核發)年月
Physiotherapist	PH66423	HPC (英國)	2004年12月
物理治療師 (主治)	主治字第10175號	物理治療學會	1999年10月
物理治療師	(八六)專高字第4527號	考選部	1998年4月
物理治療師	物字第000325號	衛生署	1996年11月
物理治療師	台檢物師字第161號	考選部	1996年10月