



# Latest Research

July 2009

## Pubmed

- 1) **Efficacy of acupuncture for the treatment of fibromyalgia: systematic review and meta-analysis of randomized trials.**  
Martin-Sanchez E, Torralba E, Díaz-Domínguez E, Barriga A, Martin JL.  
Open Rheumatol J. 2009 Jun 16;3:25-9.
- 2) **Electroacupuncture reduces uterine artery blood flow impedance in infertile women.**  
Ho M, Huang LC, Chang YY, Chen HY, Chang WC, Yang TC, Tsai HD.  
Taiwan J Obstet Gynecol. 2009 Jun;48(2):148-51.
- 3) **[Systematic evaluation of the randomized controlled trials about acupuncture and moxibustion treatment of allergic rhinitis]**  
Xiao L, Li B, Du YH, Xiong J, Gao X.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):512-6. Chinese.
- 4) **[Clinical study on acupuncture combined with medication in restoration of gastrointestinal functions for postoperative patients with gastric cancer]**  
Yin SH, Du YQ, Liu B.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):459-62. Chinese.
- 5) **[Clinical observation on effects of routine acupuncture combined with Feiteng Bafa for chloasma]**  
Zhang XL, Liu Y, Yang LK, Wang L.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):455-8. Chinese.
- 6) **[Clinical observation on therapeutic effect of different acupuncture therapies on acute peripheral facial paralysis]**  
Yang Y, Zhang W, Zhu JP.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):452-4. Chinese.
- 7) **[Observation on therapeutic effect of fire-needle therapy on lumbar intervertebral disc herniation]**  
Yang LY, Lu DJ, Li YH.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):449-51. Chinese.
- 8) **[Clinical observation on combination of source point and Back-Shu Point for treatment of perimenopausal syndrome]**  
Shang YJ, Zhang Y, Kong LL, Wang YY, Wang DS, Liu J.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):444-8. Chinese.
- 9) **[Effects of acupuncture preventive treatment on the quality of life in patients of no-aura migraine]**  
Zhang Y, Zhang L, Li B, Wang LP.  
Zhongguo Zhen Jiu. 2009 Jun;29(6):431-5. Chinese.

- 10) **Acupuncture for dyspepsia in pregnancy: a prospective, randomised, controlled study.**  
da Silva JB, Nakamura MU, Cordeiro JA, Kulay L Jr, Saidah R.  
Acupunct Med. 2009 Jun;27(2):50-3.
- 11) **Acupuncture to initiate labor (Acumoms 2): A randomized, sham-controlled clinical trial.**  
Asher GN, Coeytaux RR, Chen W, Reilly AC, Loh YL, Harper TC.  
J Matern Fetal Neonatal Med. 2009 Jun 11:1-6. [Epub ahead of print]
- 12) **Acupuncture for chemotherapy-induced neutropenia in patients with gynecologic malignancies: a pilot randomized, sham-controlled clinical trial.**  
Lu W, Matulonis UA, Doherty-Gilman A, Lee H, Dean-Clower E, Rosulek A, Gibson C, Goodman A, Davis RB, Buring JE, Wayne PM, Rosenthal DS, Penson RT.  
J Altern Complement Med. 2009 Jul;15(7):745-53.
- 13) **[Influence of acupuncture on postoperative pain, nausea and vomiting after visceral surgery : A prospective, randomized comparative study of metamizole and standard treatment.]**  
Grube T, Uhlemann C, Weiss T, Meissner W.  
Schmerz. 2009 Jun 5. [Epub ahead of print] German.
- 14) **Low-frequency Electro-Acupuncture and Physical Exercise Decrease High Muscle Sympathetic Nerve Activity in Polycystic Ovary Syndrome.**  
Stener-Victorin E, Jedel E, Janson PO, Sverrisdottir YB.  
Am J Physiol Regul Integr Comp Physiol. 2009 Jun 3. [Epub ahead of print]

## Other Databases

- 1) Wang G.-B. Liu C. Wu L.-B. Yan B. Gao S.-Z. Shao G.-R. Lu Q.-C.  
**Functional magnetic resonance imaging on acupuncturing Yuan-Source and He-Sea acupoints of Stomach Meridian of Foot-Yangming.**  
Acta Academiae Medicinae Sinicae. 31(2)(pp 171-176), 2009. Date of Publication: April 2009.

### Abstract

**Objective:** To explore the functional brain localization with magnetic resonance imaging (MRI) after acupuncturing the Yuan-Source and He-Sea acupoints of Stomach Meridian of Foot-Yangming (ST).

**Methods:** The study was performed in 30 healthy volunteers who underwent acupuncture at Yuan-Source acupoint (Chongyang, ST42) and He-Sea acupoint (Zusanli, ST36) (ST group). Ten of these were also underwent acupuncture at the non-acupoints as the control group. Blood oxygenation level dependent functional MRI was performed. Results: In the ST group, signal increasing areas were demonstrated in bilateral superior temporal gyri (Brodmann 22), bilateral supramarginal gyri (Brodmann 40), bilateral cerebellar hemispheres, bilateral cingulate gyri and isthmus of cingulate gyri (Brodmann 32, 30), bilateral superior parietal lobules (Brodmann 7); signal decreasing areas were shown in bilateral orbital gyri (Brodmann 11), bilateral temporal pole (Brodmann 38), right inferior frontal gyrus (Brodmann 47) and right medial occipitotemporal gyrus (Brodmann 36). In the control group, signal increases areas were demonstrated in superior temporal gyri, precentral gyri, cingulate gyri, thalamus, insula and cerebellum. The size, signal intensity and number of increasing areas in control group are less than in ST group.

**Conclusion:** Combined acupuncture of Yuan-Source and He-Sea acupoints of ST can activate and decrease the multiple brain regions of "splanchnic brain" and thus reach a new functional balance to relieve pain.

2) Yuan A.-H. Liu Z.-C. Wei Q.-L. Cai H.

**Changes of adipocytokines following acupuncture in type 2 diabetic rats.**

Journal of Clinical Rehabilitative Tissue Engineering Research. 13(20)(pp3915-3919), 2009. Date of Publication: 14 May 2009.

**Abstract**

**Background:** The effect of adipocytokines in morbidity of type 2 diabetes is poorly understood. Many researches suggest that acupuncture has better curative effect on type 2 diabetes, how about the effect of acupuncture on adipocytokines?

**Objective:** To explore the relationship between adipocytokines and type 2 diabetes mellitus, further more, to study the effect of acupuncture on adipocytokines in type 2 diabetic rats.

**Design, time and setting:** A randomized animal experiment was carried out at Animal Experiment Center of Nanjing University of Traditional Chinese Medicine from August 2006 to January 2007.

**Materials:** Totally 100 male SD rats, that just ablated, with mean body weight of 50 g. The rats were randomly fed with normal diet (n=20) and hyperlipidemic diet (n=80). Diet induced obesity rats were defined as mean body weight of rats fed with hyperlipidemic diet was 20% higher than rats fed with normal diet.

**Methods:** Small dose Streptozotocin was injected into the abdomen of 40 diet induced obesity rats to induce type 2 diabetes mellitus models. Then 27 type 2 diabetic rats were randomly divided into the acupuncture (acupunctured Housanli, Neiting and Yishu points, one time per day), Glibenclamide [1.6 mg/(kg), 1 time per day] and model groups. After 4 weeks of treatment, 9 rats fed with normal diet were served as control group.

**Main outcome measures:** Fasting blood sugar (FBS) was examined with active blood sugar meter, fasting insulin (FINS) was detected by radioimmunoassay, and serum levels of adiponectin, resistin and tumor necrosis factor alpha (TNF alpha) were measured by ELISA.

**Results:** Serum levels of FBS, FINS and TNF alpha in model group were higher than that of the control group ( $P < 0.05$ , or  $0.01$ ). Serum levels of FBS, FINS and TNF alpha in the acupuncture group were obviously lower than the model group ( $P < 0.05$  or  $0.01$ ), which were similar to control group. FBS in Glibenclamide groups was reduced obviously compared with model group. Serum FINS and TNF alpha were reduced in some degree, but significant differences was found between Glibenclamide and control groups. Serum levels of adiponectin and resistin had no significant differences between normal, model, acupuncture and Glibenclamide groups ( $P > 0.05$ ).

**Conclusion:** No obvious relationship between serum levels of adiponectin, resistin and type 2 diabetes mellitus, TNF alpha may involve in the pathogenesis of type 2 diabetes mellitus. Both acupuncture and Glibenclamide can improve insulin resistance status and suppress serum TNF alpha in type 2 diabetic rats, especially superior by acupuncture.