Traditional Chinese medicine (TCM) is a broad range of medicine practices sharing common concepts which have been developed in China and are based on a tradition of more than 5,000 years, including various forms of acupuncture, herbal medicine, massage (Tuina), exercise (qigong), and dietary therapy. Otherwise, the so-called Integrative Medicine, practised in China in the 1970s, uses TCM and Western Medicine simultaneously.

According to Wang SH et al., (Guandong, China, 2007) [1], electroacupuncture (main points: CV17 - CV5 - CV4 - CV12 - GB34) combined with Western medicine has a significant therapeutic effect on MG: one of the mechanisms would be to restrain specific immune reaction by regulating the level of IL-4.

60 patients with MG were randomly assigned to 2 groups, 30 patients in each group:
- **Experimental Group**: Electroacupuncture AND Pyridostigmine (90-240 mg/day) AND Prednisone (30-60 mg/day).
- **Control Group**: Pyridostigmine (240-480 mg/day) AND Prednisone (60-100 mg/day).

**Outcome measures**: clinical therapeutic effects and Interleukin-4 levels before and after treatment.

### General Method of Acupuncture

Acupuncturist insert needles into specific points in various parts of the body, for stimulating the **Meridians** which connect the **Internal Organs**, and correspond to the Five Elements in the Universe. **Yin and Yang harmony** is the treatment goal of TCM.

The overall therapeutic strategy is usually focused on **holistic regulation and dual modulation**: remove excesses and replenish deficiencies of Yin or Yang.

The **Chinese diagnosis** is based on the differentiation of syndromes (Bianzheng) that will refine treatment. So myasthenia gravis (MG) may come in different clinical settings as a deficiency of the Spleen (qi) and Stomach qi (wei), a deficiency of yang Rate (pi) and Kidneys (shen), a deficiency of yin Liver (gan) and Kidneys or a deficiency of qi and xue (blood) [2,3,4].

A study has even established electrophoretic profiles of serum of patients with MG according to syndromes Bianzheng and their evolution after treatment of Chinese herbs components. Other Chinese herbal treatments or moxibustion showed their interest in integrative medicine [7,8].

### Some Examples of the Evidence and Utilization of Acupuncture in USA

Acupuncture and TCM have become an accepted part of US system of Health care.

**National Institutes of Health Consensus Statement**: Acupuncture may be useful as an adjunct treatment for Myofascial Pain; Fibromyalgia; Osteoarthritis; Low-Back Pain; Carpal Tunnel; Asthma; Tennis Elbow; Chemo-Therapy Induced Vomiting and Nausea.

**Mind-Body Research Group at the University of South Carolina** has published studies about the effectiveness of acupuncture in: Pain; Stress and Quality of life; Pain and Subjective Peripheral Neuropathy; Oral Lesions; Insomnia.

**American Institute of Acupuncture**, established in 2010 in Houston (Texas), is conducting research in TCM.

Could acupuncture be used as an adjuvant therapy in the management of patients with myasthenia gravis?

A collaboration between the “Association Scientifique des Médecins Acupuncteurs de France” and Expert Centres for Neuromuscular Diseases might be considered.

### References

7. Liu XY et al. (Clinical study of strengthening qi and nourishing shen therapy combined with Western medicine on patients with glucocorticoid resistant myasthenia gravis). Zhongguo Zhong Xi Yi Jie He Za Zhi. 2010 Mar 30(3):271-4.

**Myasthenia 2013 Conference, Paris (July 1-2, 2013)**