

## SOLITONS INDUCTION BY TUINA IN THE HORSE

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Tuina is one of medical disciplines of Traditional Chinese Veterinary Medicine (TCVM) used for treating and preventing illness: it is a dynamic therapy that improves the energetic components of the body.

The main actions of Tuina are:

- Moving Qi (Energy) and Xue (Blood)
- Regulating Zang – Fu functions
- Restoring Yin/Yang balance.

According to Tradition there are six manipulation groups:

- Bai Dong Fa (Shaking / Swinging)
- Mo Ca Fa (Friction by palm of the hand)
- Ji Ya Fa (Squeezing)
- Zhen Dong Fa (Trembling)
- Kou Ji Fa (Percussing)
- Special manipulations for passive joint movements<sup>1</sup>.

All of TCVM is based on the concept of Qi, energy; the most proper translation of Qi is *breaths* (in the plural!) because the energy can take different forms, material or subtle forms; the mathematical explanation of the equivalence between energy and matter was set by Einstein (1905):  $E = mc^2$ .

In recent years knowledge of TCVM has been extended through highly complex experimental studies employing high-tech instrumentation, like PET (Positron Emission Tomography) and SQUID (Superconducting Quantum Interference Device), based on quantum physics theories. This has led to a new biophysical interpretation of medicine and a fuller understanding of how the energy activity of acupoints affects organs and tissues<sup>2</sup>.

Meridians are not deterministic and mechanistic structures, but they are virtual channels that become active when they are stimulated by needles or massage: they are the pathways for information signals and the information signals too. Their activation induces an informative flow of energy that restoring energetic balance<sup>3</sup>.

Solitons are solitary waves that propagate in living systems through empty space among the atoms. They transport information without energy loss. The first concept of soliton was set by Russell (1844) in hydrodynamic and was developed by other authors: D.J Korteweg and G. de Vries (1895); N.J. Zabusky and M.D. Kruskal (1965); A.S. Davidov (1979, 1982) that has demonstrated that solitons can propagate along protein chains.

L.S. Brizhik (1998, 2003, 2009) has proved that in the living being there is an electromagnetic field that forms a dynamic pathway for electromagnetic signals. These signals travel as energetic packets without dispersion and they induce the self organization. In this view the health status coincides with a normal flow of energy and information; the illness status correspond to a flow blocking and coherence lacking.

The living being results as a dissipative system that is subject to a quantum coherence. E. Del Giudice (2013) asserts that the living matter can be described as a liquid crystal in which connective tissue, collagens fibres, organic water in its interfacial state support the solitons flow<sup>4</sup>.

Meridians coincide with long molecular chains in connective; acupoint stimulation causes a stable traffic of solitons along these structures with consequent biologic effects. Minimum stimuli arouse an increased response addressed to the inner: in this way the organism operate on itself, it restructure and it reorganize itself.

According TCVM meridians exist within the greasy membranes (*Huang*) that are managed by Pericardium (*Xin Bao Luo*).

The studies of H.M. Langevin (2006) have showed the main role of fascia in transmitting the acupoint signal and in cytoskeleton reshaping that determine the integrity of tensional system (tensegrity) of the horse body<sup>5</sup>.

Tuina and Acupuncture have important role in re-codifying engrams and in rebalancing the inner energy<sup>6 7</sup>.

It is possible employ many kind of energies: light, mechanical (Tuina), thermal, chemical energy, even mind energy<sup>8 9</sup>: all of these energies determine a quantum flow of information according to Planck photon theory (1900)<sup>10</sup>.

Intense and deep pressures work on material plane; delicate and superficial pressures work on subtle energy plane and on nervous system.

The effective massage is added by light movements of the operator body (to vibrate in unison); at the end of the treatment it is important to leave the emerging the *breaths* set free by manipulations. The Tuina treatment is a shape of communication and an information exchange.

For each section of the horse body it is possible employ some acupoints by massage to activate the energetic vibration. When the pressure is applied on a specific point, the energy is improved on underlying structures<sup>11</sup>.

Head:

***Nei Chun Yin***

**Tai Yang** (*Nao Shu*)

**ST 3** (*Juliao*).

Neck:

**CV 22** (*Tiantu*)

**CV 23** (*Lianquan*)

**BL – GB – LI – ST – TH** Channels.

Solar Plexus:

**CV 15** (*Jiuwei*)<sup>12</sup>.

Forelimbs:

**BL 11** (*Dazhu*)

**LI 10** (*Shou Sanli*)

***Xi Mai***

***Xi Yan***

***Luo Zhen Xue***

***Yao Tong Xue***

***Si Guan***

## ***Qian Ti Men***

**Ting** Points (It is necessary start from the lower going up to high; Yu The Great).

### Trunk:

**Bei Shu** Points

**SP 21** (*Dabao*)

18<sup>th</sup> Rib.

### Abdomen

**CV 8** (*Shenque*).

### Hindlimbs

**Shen Shu**

**BL 35** (*Huiyang*)

**GB 34** (*Yanglingquan*)

**BL – GB – ST** Channels

**ST 41** (*Jiexi*)

**BL 60** (*Kunlun*)

Achilles Tendon

## ***Hou Ti Men***

**Ting** Points (The feet are physical and physiological supports of balance, posture, wellbeing of the horse body).

### Tail

**Wei Gen**

**Wei Ben**

**Wie Jian.**

### Horse Point

**LR 3** (*Taichong*)<sup>13</sup>.

*“The vital energy is contained inside the dense vibration of the body matter and they are both permeated by the most subtle vibration: the Conscience”*  
(Paramahansa Yogananda, Scientific Healing Affirmations, 1968).



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