



**Dry Needle Acupuncture
Post Column Trauma**

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**In Locomotory Paresis
In Dog – Case Study**



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Paresis and paralysis

- are manifested by total or partial loss of movement possibility and body's sensibility or of a part of, due to the nervous system damage.

Acupuncture

is a therapeutic method applicable in the veterinary medicine

The method can be beneficial in numerous diseases such as:

- gastrointestinal,
- respiratory,
- neurological (including peripheral nerve paralysis),
- musculoskeletal,
- reproductive,
- immunosuppressive,
- allergy,
- dermatological,
- urinary tract, etc.

Materials and methods

- a mongrel dog, aged 4 years, female, 7.5 kg.

Clinically

- it was observed that the animal presented:
 - decubitus wounds, to the thighs and lower limbs,
 - urinary incontinence.
- animal did not support the hindquarters.
- to simple compression of phalanges and to needle stimulation of finger pads, animal **does not** presented any reaction or limbs withdrawing stimulus.



Dog before acupuncture treatment

Holistic examination

Overall examination was to assess the:

- general state of **body fluids** (*Yin*),
- **temperature** (*Yang*), and
- **sensitivity** (*Qi*)

and to determine:

- which **meridians are involved**, and
- in what **part of the organism** energy's normal production and circulation has been altered.

It was taken and examined:

- pulses
- orientation and disease characteristics

Skin examination

- revealed **cold dampness signs** and **pain** with light pressure revealing the **Qi** involvement.
- Pulse taken of the femoral arteries at 1 inch (distal), have shown small left superficial pulses, **Yin energy (*Zang*)** moving upwards, slowly from the depths to the surface, from right to left.
- At the simple compression and palpation of phalanges, distal portion was cooler than the proximal portion revealing **Internal Cold Emptiness**.

Radiography

- Was performed using a **high frequency X-ray machine**, model **Gamma Light AD 100/20** (Physia GmbH Germany),
to:
- **1-3/kW** to incidence of **60 mill amperes/second**.



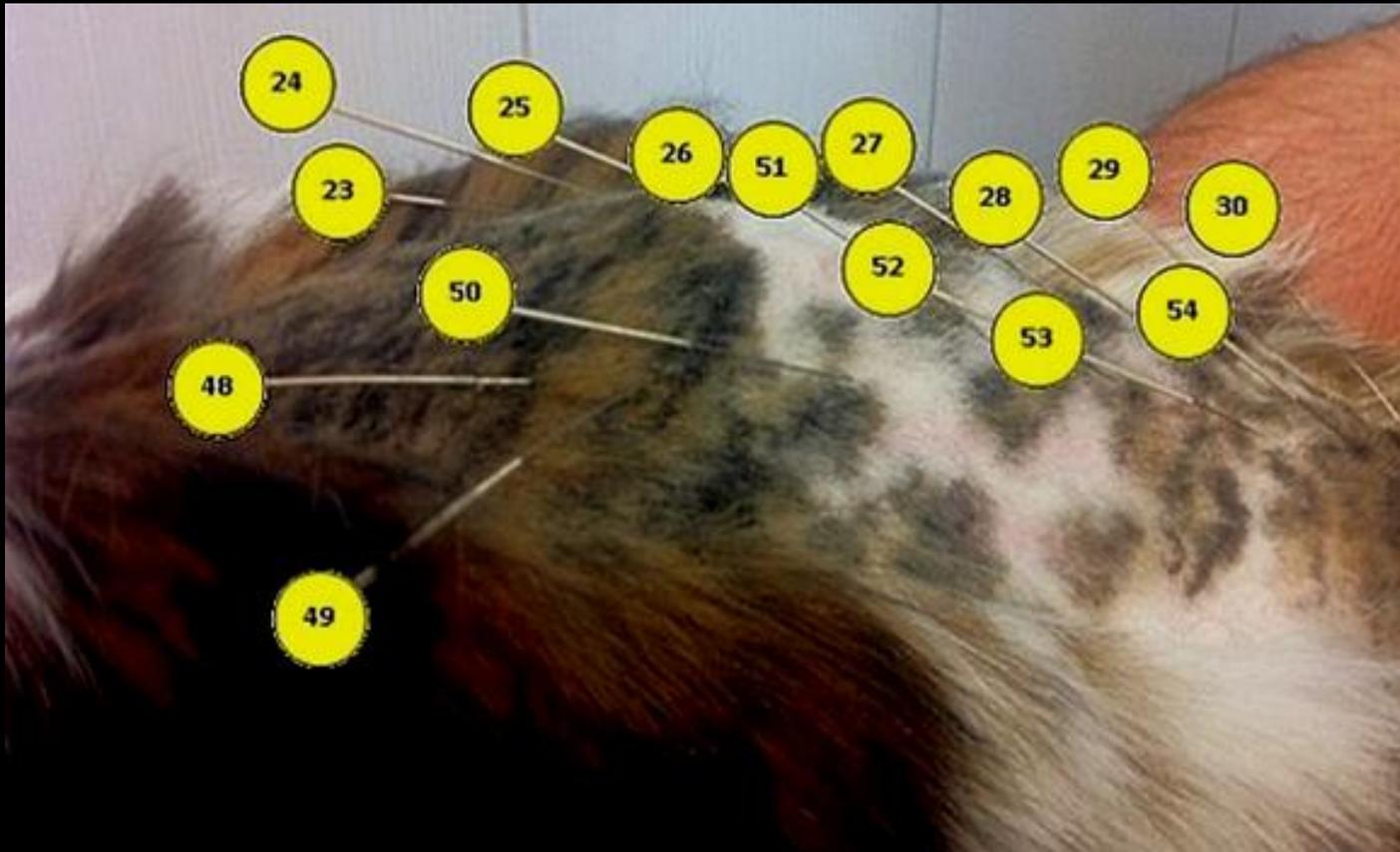
Radiographic examination confirmed a spine fracture; fracture of lumbar vertebra (L1) by subsidence, which led to the spinal canal displacement, vertebral bodies approaching in the dorsal portion, vertebral body fracture and spinal compression

Treatment

- Traditional Chinese Veterinary Medicine (TCVM) acupuncture treatment technique was used, with meridian known as responsible for spine and adjacent regions affections identifying.
- Treatment by non-manipulated dry needle acupuncture (DNAP) used sterile acupuncture stainless steel needles for single use (HUANQIU Co, LTD, Beijing, China) with dimensions of 0.30 x 40 mm perpendicularly inserted into the known acupoints
- Treatment session duration was of **30 minutes/day**, and lasted continuously for **60 days**.

Acupoints

- were addressed: **BL-18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30; 40; 47, 48, 49, 50, 51, 52, 53, 54; 57** and respectively **60**.
- **BL-23 (*Shen-shu*), BL-28 (*Pang-guang-shu*)** were chose as primordial acupoints for urinary incontinence
- further acupoints selected on the basis of individual response and the energy law of Chinese Traditional Medicine, our try being to develop a **personalized** treatment protocol for our subject



Acupoints points addressed to treat dog (BL)



Acupoints points addressed in treatment and dog's habitus:
- after treatment 52 (left) and
- after treatment 60th (right)

Results and discussion

- Noting that in the first treatment day dog not to sensitivity and does not support the pelvic limbs after acupuncture, treatment significant improvements were observed mainly related to increased sensitivity pelvic limb.

Conclusions

- In our case, simple dry acupuncture has been proven to be effective in dogs' being reliable in uncomplicated column fracture associate with urinary incontinence.
- Although the major functions are stimulated by acupuncture, the animal feeling well after the fourth-fifth intervention, the locomotory function could be fully restored much lately after 52 to 60 sessions of 30 minutes/day.



Thanks for your's attention!