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An Approach of the Academic Ideology of Professor Shang Tianyu

Dong Fuhui

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Traditional Chinese Medicine (Beijing 100700)**

Professor Shang Tianyu is one of the founders of treatment on bone fracture with the integration of traditional Chinese medicine and Western medicine. He has made enormous contributions to our national understanding of orthopedics and traumatology in his medical practice for half a century. This paper approaches the processes of initiation, development and maturation of Professor Shang's academic ideology at the point of view of the dialectical materialist theory of knowledge, and from one aspect, reemphasizes the important significance of conscious application of the materialism and dialectics in his research field of natural scientific worker.

The Development History of PingLe Orthopedics and Traumatology and Its Academic Specialities

Guo Weihuai and Guo Yanxing

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Guo's Orthopedics and Traumatology (GOT) in PingLe Village of Luoyang City is one of the major schools of traditional Chinese orthopedics and traumatology. It has been handed down for 7 generations with a history of about 200 years. Having absorbed the advantages of all the schools, GOT emphasizes the following principles: (1) comprehensive analysis of disease conditions; (2) attention to both bone and soft tissue; (3) both internal and external therapies used; (4) combination of mobilization and immobilization, and so on, GOT includes a whole set of unique maneuvers for diagnosis, reduction and soft-tissue treatment, fixation appliances and methods, pharmaceutical therapies, and methods for functional exercises, Guo's maneuvers are characterized by skillfulness and Guo's fixating methods by effectiveness, convenience, and short time. In pharmaceutical application, it puts the stress on comprehensive analysis of disease conditions, staged treatment and the regulation of Qi and blood, and in functional exercises, it pays attention to early, regular, controlled motion, good therapeutic effect and satisfactory functional recovery but little patients suffer, GOT enjoys high reputation in medical field.

Establishment of Traditional Chinese Orthotraumatology in the United States

Dr. Robert Wright Ph.D., L.AC

This thesis introduced the T.C.M orthotraumatology in U.S.A.:

1. A brief history of T.C.M and T.C.M.O;
2. T.C.M enjoys popular support;
3. Present challenges and directions for development.

As a result, the article pointed out that our efforts must be united to continue the development of the standard of care in every nation and the worldwide acknowledge of T.C.M.

Traditional Chinese Orthopedics in Western Europe

— State of Art and Perspectives

Jürgen Bachmann

The article presented the experience of introducing Traditional Chinese Orthopedics in Europe and the setup in the clinic with combined Chinese and western medicine. The author also introduced the orthotraumatology and manipulation of Europe, the premise of treatment with western medicine, and the combining premise of Europe and China etc. in detail.

The Research of Curing Necrosis of Femoral Head

Volkov Jevgeni Jekoloviq

The Second Central Internal Medicine Hospital of Army

In Russia, treating the necrosis of femoral head with the new therapy for the necrosis of femoral head invented by Prof. Huang Keqin has got satisfying curative effect. The Huang's therapy puts forward new views in the mechanism of the disease, variety of pathology, diagnosis, treatment, and method of recovering. It is an effective and scientific method.

The Vicissitudes of Treatment of Fractures by Integrated Traditional Chinese and Western medicine

Xu Cheng Han Hui Gu Yunwu

Tianjin Hospital

In past 30 years, there are many vicissitudes in treatment of fractures by integrated Tradition Chinese and Western Medicine. The main reasons of those changes are in-

depth clinical research and basic science. The vicissitudes include three parts: 1. The treatment way, the splintage coordinate the external fixation that made the treatment effective, that also means that the more Western Medicine treatment come into this treatment. 2. The extensive indication, in before the indication of this treatment is long bone fracture, at present time the intracapsular fracture were added. 3. Through the research of fixation and Chinese medicine by the ways of biomechanics and immunohistochemical method, the treatment of fractures by integrated Traditional Chinese and Western medicine has been more scientific.

T.C.M Maneuver of Bone-Reduction and Regulation of Tendons and Muscles

Song Yitong

Maneuver is widely used in orthopedics, such as reduction of fracture and dislocation, injuries of tissues. Maneuver can relieve rigidity of muscles, activate the channels, ease the joint movement, activate the flow of Qi and promote blood circulation. It's an important method of orthopedics. The article also presented the characteristics and classification of maneuver.

The Essential Manipulation for Fracture Reduction

Liu Haiqi

According to clinical experiences, the author recommended that the key point of manipulation for fracture reduction was holding and elevating. The biomechanical mechanism of the method was discussed in the article.

Biological Clock and the Prognosis of Injury

Zhang Xicheng

Legal Medical Department Law Court of Chao Yang Guang Dong Province

Biological clock and injury were described early in Ming Dynasty by Yi Yuan Zhen Ren. It was found in medicolegal examination that the injury location, time and prognosis have a very close relationship. Especially the 12 duration of time and 12 acupoints have concerned significance in clinic.

An Animal Study in the Analgesia and Anti-inflammatory Effects of the Different HuaYu Decoctions with Additives

Ren Feng, Li Feiyue and Zhang Hong

(Dept. Traumatology, Ruijin Hospital, Shanghai Second Medical University)

To expand the application indications of Wei's HuaYu decoction, we explored the HuaYu decoction METHODS: The analgesia effects of the two decoctions, Tylenol, tablet XinHuang and placebo were compared. While the anti-inflammatory effects of the two decoctions and tablet XinHuang, Brufenum were compared.

RESULT: The analgesia effect of Hua Yu decoction with additive (I&II) is better than that of tablet Xin Huang and there was no significant difference between HuaYu decoction and Tylenol groups. The decoction with additive (I) has a better anti-inflammatory effect than decoction (II), tablet XinHuang and Brufenum.

CONCLUSION: HuaYu decoction with additive (II) & (I) has an effect of analgesia. The anti-inflammatory effect of ethanol extracting decoction is better than that of aqueous extracting decoction.

Experimental Study in Effect of Chinese Medicine ‘Bone Growth Fluid’ to Trace Elements in Lengthening Bone

Zou Pei Li Zhuyi Ruan Mo et.al

Orthopedic Center, Kunming General Hospital in Chengdu Military Region (Kunming 650032)

In order to study the effect of Chinese medicine, ‘Bone Growth Fluid’ , on bone formation in bone lengthening, the goat limb lengthening model was made to observe bone formation in the distracted area, and the trace elements content in the distracted callus was determined. The results showed new bone formation and bone remodeling in medicated group was advanced than that in control group, and the trace elements content in medicated group was improved. So Chinese medicine, ‘Bone Growth Fluid’ , could accelerate the accumulation of the trace elements in the distracted callus, and it may be one of the mechanism for its promoting the osteogenesis and bone remodeling in bone lengthening.

The Experimental Study of the Role of Synthetic Moschus and The Inflammation Reaction of Degenerative Disc

Shi Qi Peng Baogan Wang Yongjun
Institute of Orthopedics and Traumatology
of the University of T.C.M.Shanghai 200032

To understand the pathobiology processes, to assay the levels of inflammation and IgG, IgM and to observe the inhibitory effect on inflammation and IgG, IgM the degenerative cervical discs. In experiment, 25 White New Zealand rabbits were used and divided into five groups: 3 months and 8 months control groups and model groups of cervical spondylosis, and 8 months group with Synthetic Moschus. The model of degenerative disc was established. The levels of histamine, 5-OH-tryptamine, PGE 2 and 5-Keto-PGF1 were assayed with biochemical methods and immunodiffusion technologic in all animal disc samples. T test was used to determine statistically significant differences between the control groups and model groups of cervical spondylosis and the group with Synthetic Moschus.

Results: The levels of inflammation in 3 months model group are higher than 3 months control group. The levels of in 8 months model group are much higher than 9 months control group. Statistical significant differences were noted between the two study groups for the levels of inflammation ($P < 0.01$), and the group with Synthetic Moschus can decrease the levels, this is to note between the group with Synthetic Moschus and 8 months model ($P < 0.01$). But, the levels of IgM in every groups isn't statistically significantly different ($P < 0.05$).

Clinical Research of Computed Image Processed X-Ray Films to Diagnose Femur Head Necrosis

Huang Hui Lang Fengping Huang Yongxun

By use of computed color image processing technique, black-and-white X-ray films were processed into colorful ones. It could enhance discernment capacity by naked eyes. Also it could distinguish pathologic changes earlier, supply quantitative analysis for stage, site and estimate recovery of diseases.

Experimental Study on the Glucocorticoid-Induced Avascular Necrosis of Femoral Head Treated with 'Shen Mai Cheng Gu Fang'

Yuan Hao Fang Bin He Wei Fan Yueguang Tang Liming
Zhang Dexing Zhang Qiao Yang Xingfen

Glucocorticoid-induced avascular necrosis of femoral head is a very challenging

disease in orthopedic clinic. It is common seen in young adults. An experimental study on the mechanism of the disease treated by 'Shen Mai Cheng Gu Fang' was carried out and the result has proved that the prescription has the function of regenerating blood vessel in bone tissue, stimulating new bone growth and dead bone absorbing.

The Effect of Chinese Medicine San-Hua Powder on GH-Secreting Cells of Pituitary Gland in Postfracture Rats

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The pituitary glands in rats were studied for observing the mechanism of promoting and healing of tibia fracture of San-Hua powder for setting of fracture.

Method: The Wister rats were into divided different groups. Each group was administered with the San-Hua powder once a day (2% Suspension 0.5ml/100gm BW) for 3,7,14or 28 days respectively after artificial fracture of tibia. Comtrel groups were given 5% Arab gel as placebo. The pituitary gland was taken out to observe the weight area and gray degree of GH-secreting cells by immunohistochemistry with image analytical instrument.

Result: The body weight and weight of pituitary gland has not any difference between experimental and control animals. However there are significantly differences in the area and gray degree of GH-secreting cells, revealing increase of cellular area and GH content in all of the experimental groups after administration of San-Hua powder except 3 days. But this kind of change of GH-secreting cells was recovered to normal level when the bone fracture healing or with drawl of this medicine occurred.

Discussion: our results show that San-Hua powder can increase the synthesis of GH in pituitary cell. The efficacy of promoting healing of fracture of San-Hua powder is possible to involve the GH augment.

'Five-Step Treatment' for Orthopedics and Traumatology Diseases

American Institute of Acupuncture Orthopedics & Traumatology

Zhiwei Xu L.Ac.

The 'Five-Step Treatment' includes:

1. Acupuncture; 2. Reduction by manipulation; 3. External herbal plaster application & internal use of herbs; 4. Fixation; 5. Tui-Na, Dao-Yin and functional exercise (May combine herb fumigation-washing therapy). It is a result of Dr. Xu's many years of intensive study and research of both Western and Oriental Medicines combined with his rich clinical experience. The 'Five-Step Treatment' has marked efficacy in the treatment of acute traumatic injury and chronic strain.

Acupuncture techniques:

After sterilizing the skin of the patella area, the acupuncturist pushes the lateral side of patella inward to open the space between patella and anterior surface of medial femoral condyle and inserts a needle (32 gauge, 2 inches) to Xi Yan (extra). The needle should be right between patella and femoral cartilage and reaches the medial side of lateral condyle. Patient will have "De Qi" feeling. Two more needles should be inserted about half inch away from Xi Yan and each other along the medial edge of patella. You use the same way to push the patella outward and needle St.35 and two other points above. Then you connect the electric stimulator to all the needles (negative on the medial side and positive on the lateral side) with 5 Hz, intermittent wave. The stimulating time is 20 minutes. The treatment is 3 times a week for 3 weeks.

How to Use Acupuncture in the Treatment of Orthotraumatology Disease

Wang Ruishen

By introducing the treatment of Periarthritis of shoulder, tenovaginitis, sprain waist treated by acupuncture to convince merits of acupuncture, especially in orthotraumatology.

Needle-Pricking Therapy's Clinical Usage in Orthopedics

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In Chinese Medicine History, many people just know the Acupuncture but neglect the Needle-pricking Method, which has the same source with Acupuncture. This thesis has talked about the developing History of it, combined several years' clinical experiences of Dr Tu Yao Yong, summed up Needle-Pricking Method's characteristic on basis of theory, principle of treatment and clinical usage in orthopedics, then point out clearly from the corner of developing tendency of world medicine: Excavate and arrange some safe simple, efficacious traditional medicine method.