



Traditional Chinese Medicine and Emergency Clinical Practice in China: *History and Current*

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Traditional Chinese medicine (TCM)



什么是中医学

根据全国科学技术名词审定委员会审定的名词，中医学，是以中医药理论及实践经验为主体，研究人类生命活动中健康与疾病转化规律及其预防、诊断、治疗、康复、保健的一门综合学科。



"Based on Chinese medicine theory and clinical practical experience , study human health and life activities and disease transformation, then to prevent, diagnosis, practice treatment , rehabilitate, and multidisciplinary health care"



TCM... ..

- **Traditional Chinese medicine (TCM) has a long time history**
 - More than 2,000 years ago, came out Huangdi Classic Medicine(Huang Di Nei jing 黄帝内经). It gives a complete and systematic exposition to the subjects of : the relationship between human and nature, human physiology and pathology , the diagnosis, treatment and prevention of the diseases. It also uses the theories of yin-yang and the five elements to deal fully with the principles of treatment by differentiation of syndromes (TDS 辨证论治), according to the climatic and seasonal conditions, geographical localities and individual constitution, taking the human body as an organic whole and taking the human body with the surrounding environment as well



TCM classical basic theories

- **vital essence theory (精气学说)**
- **yin-yang theory (阴阳学说)**
- **five element theory (五行学说)**
- **visceral outward manifestation theory (藏象学说)**
- **qi-blood-fluid theory (气血津液)**
- **meridian theory (经络学说)**
- **etiology theory (病因学说)**



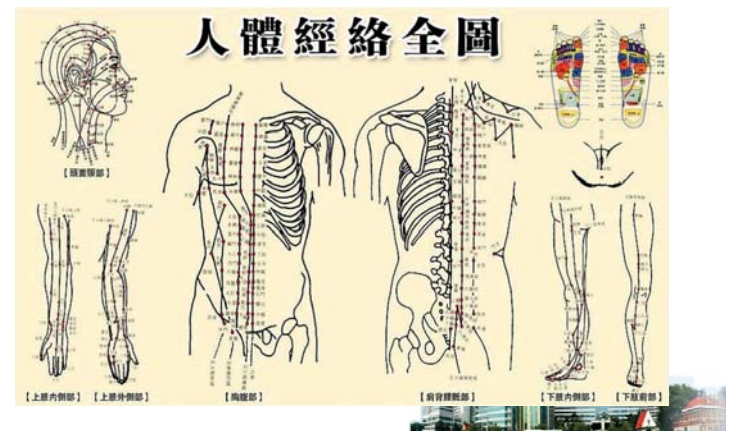
TCM classical basic theories

yin-yang five element theory

The yin-yang theory permeates all aspects of the
The five elements refer to **wood, fire, earth, metal,** and **water** and their **motions**. The five element theory resulted from the observations and studies of ancient Chinese during their lives and working. Since the five element have been considered as basic substances to constitute the universe and they are also indispensable for life.



Meridians



Theoretical writings

上医医未病之病

top grade doctor treat the patient who is not really sick

中医医将病之病

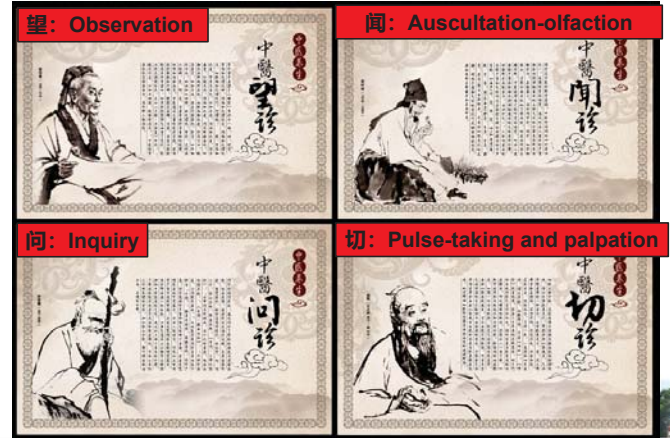
middle grade doctor treat the patient who is going to sick

下医医已病之病

inferior grade doctor treat the patient who has already sick

How to do?

diagnosis



How to do?

Treatment

Physical Therapy

Acupuncture and Moxibustion
Fire Cupping
Massage
Scrapping



How to do?

Treatment

Traditional Medicine

Single dose

Complex preparation



Decoction

one or two times a day.....



TCM and rescue..... in the past



- Emergency pain (急性疼痛)
- Convulsions (抽搐)
- Syncope (晕厥)
- Trauma (创伤)
- Asthma (哮喘)
- Fever(发热)
- Hanging (自缢)
- and and ...

TCM treatment for acute onset of asthma
dong hongtao, home medicing, 2013(3)



The current.....



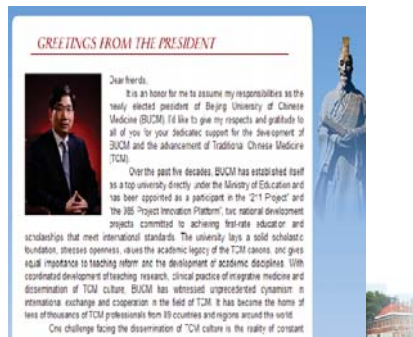
- TCM is a part of Chinese culture
- General medical education also involves in TCM
- Many people trust TCM
- Almost every city has a TCM hospital
- Almost every general hospital has a TCM department



The Current.....

● China now has sixteen University of Chinese Medicine

- ❑ Beijing University of Chinese Medicine
- ❑ Guangzhou...
- ❑ Shanghai ...
- ❑ Chengdu...
- ❑ Nanjing ...
- ❑ Heilongjiang ...
- ❑ Tianjin
- ❑ Shandong ...
- ❑ Hubei...
- ❑



Principle.....

“中西结合”

Chinese and Western medicine combined

“急则治其标，缓则治其本”

Deal with emergency symptoms, then with the basic cause

“立竿见影”与“循序渐进”

"Get instant results" and "Step by step"



erected bamboo poles in the sun, immediately seeing the shadow, metaphorizing effective immediately



Some of clinical mature prescription

- Angong Niu Huang Wan (安宫牛黄丸)
- Zixue San (紫雪散)
- Zhibao Dan (至宝丹)
- Shenfu Injection (参附注射液)
- Xuebijing Injection (血必净注射液)
- Tanreqing Injection (痰热清注射液)
- Xingnaojing Injection (醒脑静注射液)
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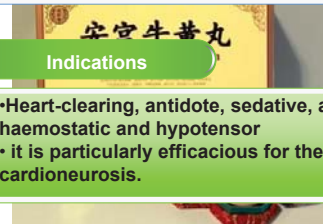
Angong Niu Huang Wan (安宫牛黄丸)

- A **Composition** l medicine with an excellent

e artificial musk, bezoar, buffalo horn concentrate powder, pearl, cinnabar, realgar, rhizoma coptidis, radix scutellariae, fructus gardeniae, radix curcumae, borneol

Indications

T •Heart-clearing, antidote, sedative, antispasmodic, cardiotoxic, haemostatic and hypotensor
• it is particularly efficacious for the prevention and treatment of cardioneurosis.



Zixue San (紫雪散)

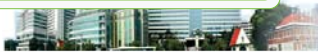
• It is a **Composition** **low**, and with the characteristic of

gypsum, cold water stone, magnet, talc, horn, antelope horn, radix aucklandiae, agilawood, radix scrophulariae, cimicifugae, liquorice, clove, sodium sulfate, nitrate, musk, cinnabar, etc



Indications

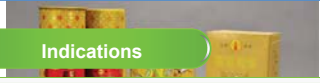
High fever with delirium, delirious, spasm, spotted fever, infantile febrile convulsion. Today it was often used for encephalitis b, epidemic cerebrospinal meningitis, severe pneumonia, suppurative septicemia, children with measles blood poison, typhus, scarlet fever and so on



Zhibao Dan (至宝丹)

• It is a **Composition** **ty** of rare medicinal herbs, and with a **distinctiveness** **efficacy**

black rhino, tortoise shell, amber, cinnabar and realgar, bezoar, borneol and musk, benzoin, tinsel



Indications

all sorts of fever diseases, febrile convulsion, dysphoria, delirious and infantile convulsion



Shenfu Injection (参附注射液)

• It is a **Composition** **ring yang**, tonifying qi and stem

This injection was improved from traditional shenfu polyjuice potion



Indications

Syndrome of sudden yang collapse such as septic shock, hemorrhagic shock. It can be also used for Yang deficiency (qi deficiency) which was caused by pavor, stomach pain, palpitation, asthmatic cough, diarrhea, poliomyelitis, etc



Some of fundamental research... ..

Effect of Shenfu Injection on Ischemia-Reperfusion Injury of the Brain

Wang Shou, Zhou, Ni, Sheng Long and Ji-Yu Zhuo
Jilin, China

Abstract: Shenfu Injection (SFI) was used as a model for ischemia-reperfusion injury (IRI) in the brain. The results showed that SFI significantly reduced the levels of malondialdehyde (MDA) and increased the levels of superoxide dismutase (SOD) and catalase (CAT) in the brain tissue. SFI also significantly reduced the levels of interleukin-1 (IL-1) and interleukin-6 (IL-6) in the brain tissue. These results suggest that SFI may have a protective effect on the brain tissue in IRI.

Shen-Fu Attenuates Endotoxin-Induced Acute Lung Injury in Rats

Yuanqing He, Xu Jun and Shengping Wang
Department of Anesthesiology, The First Affiliated Hospital of Anhui University of Traditional Chinese Medicine, Hefei, Anhui, China

Abstract: Shen-Fu (SF) was used to attenuate endotoxin-induced acute lung injury (ALI) in rats. The results showed that SF significantly reduced the levels of malondialdehyde (MDA) and increased the levels of superoxide dismutase (SOD) and catalase (CAT) in the lung tissue. SF also significantly reduced the levels of interleukin-1 (IL-1) and interleukin-6 (IL-6) in the lung tissue. These results suggest that SF may have a protective effect on the lung tissue in ALI.

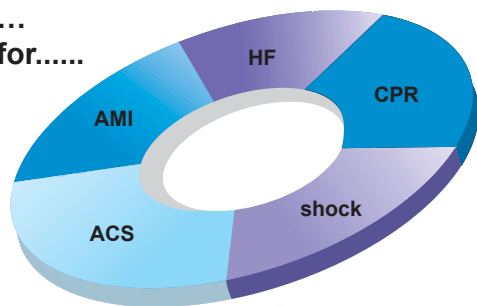
Effect of Shenfu on Inflammatory Cytokine Release and Brain Edema after Prolonged Cardiac Arrest in the Rat

Xiaohua Wu, Chuanling Li, Wei Gu, Jipin Guo, Mingyuan Yu, Xu Zhang
Department of Anesthesiology, The First Affiliated Hospital of Anhui University of Traditional Chinese Medicine, Hefei, Anhui, China

Abstract: Shenfu (SF) was used to attenuate inflammatory cytokine release and brain edema after prolonged cardiac arrest (CA) in the rat. The results showed that SF significantly reduced the levels of interleukin-1 (IL-1) and interleukin-6 (IL-6) in the brain tissue. SF also significantly reduced the levels of malondialdehyde (MDA) and increased the levels of superoxide dismutase (SOD) and catalase (CAT) in the brain tissue. These results suggest that SF may have a protective effect on the brain tissue in CA.

《Multi-center clinical study of Shenfu Injection》

We are doing.....
We are waiting for.....



Xuebijing Injection (血必净注射液)

Composition on and antiphlogosis

safflower, radix paeoniae rubra, rhizoma ligustici wallichii, salvia miltiorrhiza, angelica and glucose

Indications

used in warm diseases, like fever, shortness of breath, palpitation, dysphoria, etc. Now it was often used for SIRS. It can also cooperate with the treatment of multiple organ dysfunction syndrome of viscera function is impaired



Tanreqing Injection (痰热清注射液)

Composition

• Antipyretic, reduce phlegm and anti-inflammatory, antiviral

radix scutellariae, bear bile powder, horns, honeysuckle, forsythia and propylene glycol

Indications

• It was used for syndrome of lung fever, such as: fever, cough, expectoration, sore throat, thirst, red tongue, yellow moss
• Early pneumonia, acute bronchitis, acute attack of chronic bronchitis and the upper respiratory tract infection



Xingnaojing Injection (醒脑静注射液)

Composition

• Restoring consciousness, antispasmodic.

Musk, turmeric, borneol, gardenia, sodium chloride

Indications

cerebrovascular accident, craniocerebral trauma, centre hyperpyrexia with coma, acute poisoning (gas, drugs, alcohol, etc.), various types of encephalitis (viral encephalitis, epidemic encephalitis B, etc)



Some problems

- Security
- Effective
- Biodiversity
- Availability
- Quality assurance



Summary



- TCM is a great treasure, the biggest characteristic of TCM is regarding the human body itself as an organic whole, it is worth developing and organizing for us, now and future
- There are some problems that TCM can not explain, but TCM is really effective, what we need to do in the future is finding the material basis of TCM in some field
- Due to some historical reasons, TCM has its own limitations. We should prove the safety and effectiveness of TCM with the aid of modern research platform, removing its dregs, taking its essence
- Combining Chinese traditional and Western medicine together is the only way to modernization for TCM
- we are doing now... ..

