



# Integrating CAM into Hospital Care: Perspectives from China

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# 1. Integrative Medicine in China: Background

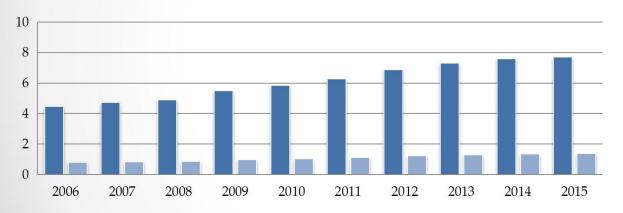
#### History

- Traditional Chinese medicine(TCM) has a history of thousands of years
- It is well documented in it's 2000-year history
- It made great contributions to the health and well-being of the people and to the maintenance and growth of the population



#### 1. Integrative Medicine in China: Background

National service amount of out-patients compared with those in TCM/IM hospitals (unit: billion)



- national service amount of out-patients
- national service mount of out-patients in TCM/IM hospitals

Data downloaded from <a href="http://www.satcm.gov.cn/">http://www.satcm.gov.cn/</a> 2017.3.22



#### **Popular**

More than 90% of the urban and rural Chinese population have sought for TCM in their lifetimes (Xu H, 2008)

# 1. Integrative Medicine in China: Background (cont'd)

#### Policy

- The importance and development of both biomedicine and TCM are well recognized by the Chinese Central Government, and have been included in the country's constitution
- Most TCM/IM treatments are covered by Medical insurances in China







# 1. Integrative Medicine in China: Background (cont'd)

- For quite a period of time, government encourage doctors with biomedicine education background to learn TCM
- Most TCM doctors in China, especially those who work in hospitals which have in-patient departments, have education background of biomedicine
- Nowadays, more and more doctors who work in biomedical hospital are willing to prescribe TCM treatments
- Trends: Holistic Integrative Medicine (HIM)





2. Several main types of model in terms of integration TCM into inpatient/hospital settings in China





## (1) Disease-based model

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#### Heart Failure

| A Multic             | Table 1     | Baseline Characteris  | tics of Patients Receiving Qili  | Qiangxin Capsules or Placeb | 00               |
|----------------------|-------------|-----------------------|----------------------------------|-----------------------------|------------------|
| Parallel-<br>Effects | Cł          | naracteristic         | Qili Qiangxin Capsules (n = 244) | Placebo<br>(n = 247)        | All<br>(N = 491) |
| With Ch              | Course of d | isease, months        | 77.25 $\pm$ 10.94                | 77.14 ± 11.27               | 77.20 ± 11.10    |
| Xinli Li, MD         | Demograph   | ics                   |                                  |                             |                  |
| Weimin Li, M         | Age, yrs    |                       | $56.98 \pm 11.59$                | $57.53 \pm 11.05$           | 57.25 ± 11.31    |
| Wenming Ya           | Male        |                       | 74.59                            | 76.11                       | 75.36            |
| Nanjing, Beiji       | Race        |                       |                                  |                             |                  |
|                      | Han         |                       | 98.77                            | 98.79                       | 98.78            |
|                      | Other       |                       | 1.23                             | 1.21                        | 1.22             |
|                      | Medication  |                       |                                  |                             |                  |
|                      | ACE inhit   | pitors                | 169 (69.26)                      | 157 (63.56)                 | 326 (66.40)      |
|                      | Angioten    | sin receptor blockers | 51 (20.90)                       | 48 (19.43)                  | 99 (20.16)       |
|                      | Beta-bloo   | kers                  | 191 (78.28)                      | 196 (79.35)                 | 387 (78.82)      |
|                      | Aldostero   | one antagonists       | 190 (77.87)                      | 201 (81.38)                 | 391 (79.63)      |
|                      | Diuretics   |                       | 220 (90.16)                      | 222 (89.88)                 | 442 (90.02)      |
| •                    | Digoxin     |                       | 127 (52.05)                      | 136 (55.06)                 | 263 (53.56)      |

From 2009 to 2014 pg P

From 2012 to 2014 national volume of top 10 Chinese Patent Medicine retail sales (unit: hundred million)



| and    | From 20  | Category                             | 2012 | 2013 | 2014 |
|--------|----------|--------------------------------------|------|------|------|
| 3000   | Medio    | Cold medicine                        | 144  | 169  | 174  |
| 2500 — | 1200     | Cardiovascular and cerebrovascular   | 76   | 90   | 98   |
| 2000   |          | Cough and reduce phlegm remedies     | 79   | 85   | 88   |
| 2000 — | 1000     | Tonic health                         | 49   | 64   | 82   |
| 1500 — | 800      | Urine and Kidney                     | 59   | 62   | 80   |
| 1000 — | 600 -    | Gastrointestinal medicine            | 68   | 73   | 76   |
| 500 -  | 400      | Throat and oral medication           | 60   | 64   | 69   |
|        | 200 - 42 | Gynecological medication             | 61   | 67   | 69   |
| 0 +    | 0 - 20   | Rheumatism and orthopedic medication | 43   | 55   | 60   |
| •      |          | Topical analgesics                   | 51   | 55   | 57   |

#### Conclusion: Disease-based model

- Only with a biomedical Diagnosis
  - Clinical areas include, cardiovascular disease, neurological disease, oncology, kidney disease, digestive disorders, respiratory disease, etc
- Apply patent products of TCM
  - Usually use internal treatments, such as Chinese patent medicine, other than external therapies, such as acupuncture
- More widely adopted in biomedical hospitals either for in-patient or out-patient services
  - The consumption amount of Chinese patent drugs in biomedical hospitals are even more than those in TCM or Integrative Medicine (IM) hospitals
- Safety issues
  - o OTC products might be misused by people





# (2) Combined model on the basis of disease and pattern of Chinese medicine





Keji Chen, M.D., an integrative medicine doctor, makes a diagnosis with traditional pulse-feeling in addition to modern stethoscope in clinical practice. Photo by Jingchun Zhang.

Dr. Keji Chen, M.D. a famous integrative medicine doctor in China

As all the integrative medicine doctors in China, he makes a diagnosis with traditional pulse-feeling in addition to modern stethoscope in clinical practice.

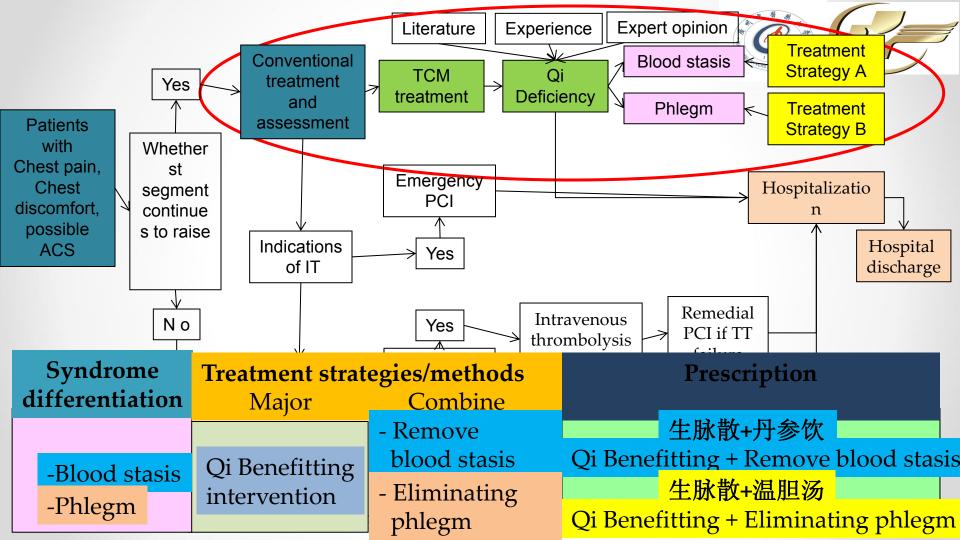




#### Research Article

#### Clinical and Epidemiological Investigation of TCM Syndromes of Patients with Coronary Heart Disease in China

|                |                | iciency<br>rome | Yang det<br>syndr | 2,500        |                | ficiency<br>rome | Cold cor       | ngelation<br>rome | Qi stag<br>syndr |              | Blood stasis syndrome |                | Turbid phlegm<br>syndrome |               |  |
|----------------|----------------|-----------------|-------------------|--------------|----------------|------------------|----------------|-------------------|------------------|--------------|-----------------------|----------------|---------------------------|---------------|--|
|                | NO             | Yes             | NO                | Yes          | NO             | Yes              | NO             | Yes               | NO               | Yes          | NO                    | Yes            | NO                        | Yes           |  |
| North<br>China | 236<br>(69.2%) | 105<br>(30.8%)  | 318<br>(93.3%)    | 23<br>(6.7%) | 291<br>(85.3%) | 50<br>(14.7%)    | 314<br>(92.1%) | 27<br>(7.9%)      | 316<br>(92.7%)   | 25<br>(7.3%) | 115<br>(33.7%)        | 226<br>(66.3%) | 189<br>(55.4%)            | 152<br>(44.6% |  |
| South<br>China | 46<br>(16.3%)  | 237<br>(83.7%)  | 257<br>(90.8%)    | 26<br>(9.2%) | 243<br>(85.9%) | 40<br>(14.1%)    | 276<br>(97.5%) | 7<br>(2.5%)       | 268<br>(94.7%)   | 15<br>(5.3%) | 24<br>(8.5%)          | 259<br>(91.5%) | 88<br>(31.1%)             | 195<br>(68.9% |  |
| $\chi^2$       | 175            | 5.10            | 1.2               | 28           | 0.             | 04               | 8.9            | 90                | 1.0              | )6           | 56.                   | 92             | 37.09                     |               |  |
| P              | 0.             | 00              | 0.2               | 26           | 0.85           |                  | 0.003          |                   | 0.30             |              | 0.00                  |                | 0.00                      |               |  |

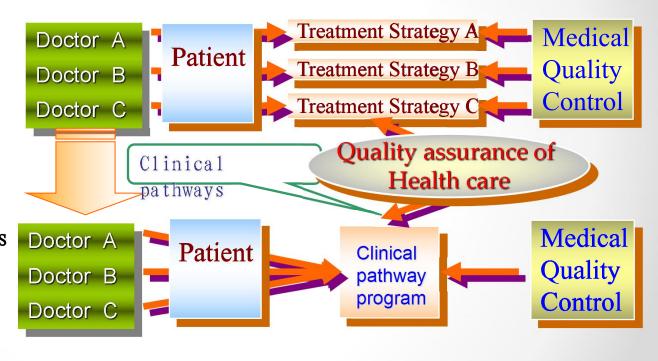


|   | TABLE 1: Demographic and clinical features of patients.                                     |                    |                  |       |  |  |  |  |  |  |
|---|---|--------------------|------------------|-------|--|--|--|--|--|--|
| Variable  | Intervention group Historical control $(n = 197)$ $(n = 405)$                               |                    |                  |       |  |  |  |  |  |  |
| comes for patients w<br>consecutive patients<br>ese patients were enr | TABLE 6: Individual and combined outcome measure of MACE occurrence during hospitalization. |                    |                  |       |  |  |  |  |  |  |
| ients with AMI from were implemented.                                 | Variable  | Intervention group | Historical group | P     |  |  |  |  |  |  |
| ACEs) during hospit gth of hospital stay (9                           | Death   | 3 (1.5)            | 22 (5.4)         | 0.03* |  |  |  |  |  |  |
| sus 52866.0 ± 35404.  | Nonfatal MI   | 1 (0.5)            | 1 (0.2)          | 0.55* |  |  |  |  |  |  |
| pitalization period (2<br>clinical pathways bas                       | Stent thrombosis  | 1 (0.5)            | 2 (0.5)          | 1.0*  |  |  |  |  |  |  |
| Clinical pattern  | TVR   | 0 (0)              | 3 (0.7)          | 0.56* |  |  |  |  |  |  |
| STEMI   | Total   | 5 (2.5)            | 28 (6.9)         | 0.03  |  |  |  |  |  |  |

# Differences between classic diagnosis treatment model and the management of clinical pathways

#### Which may:

- Enhance medical quality
- Medical safety assurance
- Decline waste of medical resources
- Provide best health care service



### To balance individualized treatment strategy and the regulated clinical pathways

- •We can stop the level of treatment strategy regulation at any of these stages, depending on the degree of consensus among the doctors :
  - •1)Same treatment principle—Yes(continue to next level)/No(stop)
  - •2)Same method of treatment—Yes(continue to next level)/No(stop)
  - •3)Same Recipe/or same advised therapy—Yes(continue to next level)/No(stop)
  - •4)Same dose for each herb/ same therapeutic dose of the nonpharmacological intervention











### Results

Com with proce

Darong Wu Liuer Ye4, Y Patient's Situation

Table 9 Examples of

**Treatment strategies** 

04 records with a r ary diagnosis of AIC

wer

200

wit

wer

tio

Table 8 Exam e of states within which patient's pattern of C se medicine was Yin

|         | 79             | Ste            | ate            |                |                |                | -03   | 150                   | 9              | Stage                 | 1 /            |                | -63                          |       |                       | 9              | Stage                 | 2              |                |                              |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-----------------------|----------------|-----------------------|----------------|----------------|------------------------------|-------|-----------------------|----------------|-----------------------|----------------|----------------|------------------------------|
| Code*   | i <sub>1</sub> | i <sub>2</sub> | i <sub>3</sub> | i <sub>4</sub> | i <sub>5</sub> | i <sub>6</sub> | Cases | <i>a</i> <sub>1</sub> | a <sub>2</sub> | <b>a</b> <sub>3</sub> | a <sub>4</sub> | a <sub>5</sub> | Rewards<br>at t <sub>2</sub> | Cases | <i>a</i> <sub>1</sub> | a <sub>2</sub> | <b>a</b> <sub>3</sub> | a <sub>4</sub> | a <sub>5</sub> | Rewards<br>at t <sub>3</sub> |
| (10036) | 3              | 1              | 0              | 1              | 2              | 1              | 122   | 0                     | 1              | 0                     | 1              | 1              | 1.00                         | 127   | 0                     | 1              | 0                     | /              | 1              | 1.00                         |
| (10037) | 3              | 1              | 0              | 1              | 2              | 2              | 130   | 0                     | 1              | 0                     | 1              | 1              | 4.00                         | 119   | 0                     | 0              |                       | 0              | 1              | 4.00                         |
| (10038) | 3              | 1              | 0              | 1              | 2              | 3              | 51    | 1                     | 0              | 0                     | 0              | 1              | 6.28                         | 60    |                       |                |                       | 0              | 1              | 4.67                         |

<sup>\*</sup>each state is coded difference according to the sequence of composing of the six characteristics.

Reward value of the corresponding treatment strategies

| 2 | Code    | 11 | 12 | 13 | 14 | 15 | 0 |    |   |   |   |   |   | •    | 9  |   |   |   | 4 | $a_5$ | Rewards at t |
|---|---------|----|----|----|----|----|---|----|---|---|---|---|---|------|----|---|---|---|---|-------|--------------|
|   | (10031) | 3  | 1  | 0  | 1  | 1  | 1 | 57 | 0 | 0 | 1 | 0 | 1 | 1.00 | 51 | 1 | 0 | 0 | 1 | 1     | 1.00         |
|   | (10032) | 3  | 1  | 0  | 1  | 1  | 2 | 40 | 0 | 0 | 0 | 0 | 1 | 5.00 | 41 | 1 | 0 | 1 | 1 | 0     | 5.00         |
|   | (10033) | 3  | 1  | 0  | 1  | 1  | 3 | 38 | 0 | 0 | 1 | 1 | 1 | 7.33 | 39 | 0 | 1 | 0 | 0 | 1     | 6.00         |

#### Protocol of stroke CPWs

Table 1 CP protocol. Time First 24h Evaluation Pnysical examination 1 GDPHM NIHSS Noncontrast brain CT or brain MR Evaluation and management of complications Orders Blood pressure management (evaluation and application) Temperature management (evaluation and application) Aspirin application (evaluation and application) Management of complication Management of concomitant diseases Rehabilitation Blood tests: blood routine, blood sugar, electrolyte, coagulation function. Markers of cardiac ischemia, renal and liver function, lipid profiles ECG Chinese ■ Decoction based on Yin and Yang syndrome Relief of blood stasis medicine Purgation Acupuncture Swallow function evaluation (evaluation and application) Nursing Skin care (Norton scale) Fall prevention (evaluation and application) Variation Signature

|         | In-Ho  | spital Treatments   |
|---------|--|---|
| Time, d | Preparatory Items  | Clinical Cares  |
| 1       | <ol> <li>The physical examination</li> <li>Review of medical history</li> <li>Develop a treatment plan</li> <li>Assess neurological<br/>functions</li> <li>Complete the first medical<br/>chart (baseline)</li> <li>Brief patient family about<br/>treatments</li> </ol> | 1. Routine care for patients with stroke 2. Class I care 3. Diet control 4. Continue prior drug administration 5. Anticoagulation drugs 6. Blood, urine and stool tests, liver and kidney functions, electrolyte, blood glucose, thrombosis, blood lipid, and screening of common |
|         | 2 Beijing<br>Tiantan<br>Hospital   | infectious diseases (hepatitis B, hepatitis C, syphilis and AIDS) 7. Antistreptolysin O test, ENA, antinuclear antibody, rheumatoid factor, fibrinogen, and protein C* 8. Chest radiographs, electrocardiography, brain MRI or computed tomography, and carotid ultrasound*       |
| 2       | Examination of patients by physician     Assess neurological functions     Brief patient family     Adjust treatment plan if necessary     Consultation with other physicians (radiologists, surgeons, etc)*   | 1. Continue previous drug administration 2. Routine care for patients with stroke 3. Class I care† 4. Diet control 5. Anticoagulation drugs 6. Measure PT/INR if warfarin is prescribed* 7. Measure APTT if heparin is prescribed* 8. Anticoagulation drugs*                      |
| 3       | Same as day 2  |   |
| 4–6     | Same as day 2  |   |
| 5–7     | Discharge with prescription d  | rug   |
|         |  | thromboplastin time; ENA, extractable time/international normalized ration; and   |

In-Hoenital Treatments

APTT indicates activated partial thromboplastin time; ENA, extractable nuclear antigens; PT/INR, prothrombin time/international normalized ration; and TIA, transient ischemic attack.

1. Evaluation of clinical pathway in acute ischemic stroke: A comparative study. Euro J IM,2015

Cost

2. Reduction of Length of Stay and Costs Through the Implementation of Clinical Pathways for Stroke Management in China. stroke, 2014



#### European Journal

journal homepage

Contents lists a

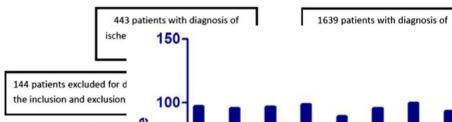


Table 1

Signature

Cost

| GCS NIHSS Noncontrast brain CT or bi Evaluation and manageme Temperature management Aspirin application (evaluation and management) Management of complication (evaluation and management) Management of concomitation and management of concomitation and provided tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation | Time                  | First 24 h   |
|--|-----------------------|--|
| NIHSS Noncontrast brain CT or be Evaluation and managemen Temperature management Aspirin application (evaluation and management Management of complication Management of concomitation Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Decoction based on Yin an Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation                               | Evaluation            | <ul> <li>Physical examination</li> </ul>   |
| Noncontrast brain CT or bi Evaluation and manageme Temperature management Aspirin application (evaluation application) Management of concomitation application Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Decoction based on Yin and Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  |                       |  |
| Blood pressure manageme Temperature managemen Aspirin application (evalua Management of complicati Management of concomita Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Decoction based on Yin an Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation   |                       | ■ NIHSS  |
| Orders  Blood pressure management Temperature management Aspirin application (evaluation) Management of complication Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Decoction based on Yin an Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation   |                       | <ul> <li>Noncontrast brain CT or bra</li> </ul>  |
| Temperature management Aspirin application (evalua Management of complicati Management of concomita Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  |                       | <ul> <li>Evaluation and managemen</li> </ul>   |
| Aspirin application (evalua Management of complicati Management of concomita Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluatie Skin care (Norton scale) Fall prevention (evaluation  | Orders                | ■ Blood pressure managemen   |
| Management of complicati Management of concomitate Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischeme profiles ECG  Chinese medicine Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  |                       | <ul> <li>Temperature management (</li> </ul>   |
| Management of concomita Rehabilitation Blood tests: blood routine, lation function, Markers of cardiac ischem profiles ECG  Chinese medicine Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  |                       | <ul> <li>Aspirin application (evaluat</li> </ul>   |
| Rehabilitation  Blood tests: blood routine, lation function,  Markers of cardiac ischem profiles  ECG  Chinese medicine  Relief of blood stasis  Purgation  Acupuncture  Nursing  Swallow function evaluation  Skin care (Norton scale)  Fall prevention (evaluation   |                       | <ul> <li>Management of complication</li> </ul>   |
| Blood tests: blood routine, lation function,  Markers of cardiac ischem profiles  ECG  Chinese medicine  Decoction based on Yin an Relief of blood stasis  Purgation Acupuncture  Nursing  Swallow function evaluation  Skin care (Norton scale)  Fall prevention (evaluation  |                       | <ul> <li>Management of concomitan</li> </ul>   |
| lation function,  Markers of cardiac ischem profiles  ECG  Chinese medicine  Relief of blood stasis Purgation Acupuncture  Nursing  Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation   |                       | <ul> <li>Rehabilitation</li> </ul>   |
| Markers of cardiac ischem profiles  ECG  Chinese Decoction based on Yin an Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  |                       | <ul> <li>Blood tests: blood routine, l</li> </ul>  |
| profiles  ECG  Chinese  medicine  Relief of blood stasis  Purgation  Acupuncture  Nursing  Swallow function evaluation  Skin care (Norton scale)  Fall prevention (evaluation  |                       | to the Control of the |
| Chinese Decoction based on Yin an Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation   |                       |  |
| Chinese Decoction based on Yin an Relief of blood stasis Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation   |                       |  |
| medicine  Relief of blood stasis  Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  |                       | ■ ECG  |
| Purgation Acupuncture  Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation  | Chinese               | ■ Decoction based on Yin and   |
| Acupuncture  Nursing Swallow function evaluation  Skin care (Norton scale)  Fall prevention (evaluation  | medicine              | <ul> <li>Relief of blood stasis</li> </ul>   |
| Nursing Swallow function evaluation Skin care (Norton scale) Fall prevention (evaluation   |                       | ■ Purgation  |
| <ul><li>Skin care (Norton scale)</li><li>Fall prevention (evaluation</li></ul>   |                       | Acupuncture  |
| Fall prevention (evaluation  | Nursing               | ■ Swallow function evaluation  |
|  | and the second second | <ul> <li>Skin care (Norton scale)</li> </ul>   |
| Variation  |                       | ■ Fall prevention (evaluation  |
| Vallation  | Variation             |  |

Table 5

The odds ratio and coefficient of CP for LOS, hospitalization cost and clinical outcomes.

|                |         | CP  | RCP                       | P value |
|----------------|---------|-----|---------------------------|---------|
| Length of stay | Model 1 | 1.0 | 4.0 (2.3, 5.8)            | < 0.001 |
|                | Model 2 | 1.0 | 4.5 (2.6, 6.3)            | < 0.001 |
|                | Model 3 | 1.0 | 4.0 (1.5, 6.0)            | 0.002   |
| Cost           | Model 1 | 1.0 | 5744.5 (3237.6, 8251.4)   | < 0.001 |
|                | Model 2 | 1.0 | 7163.7 (4575.6.6, 9751.7) | < 0.001 |
|                | Model 3 | 1.0 | 7850.3 (4306.3, 11,394.3) | < 0.001 |
| Good outcome   | Model 1 | 1.0 | 0.48 (0.35, 0.64)         | < 0.001 |
|                | Model 2 | 1.0 | 0.48 (0.35, 0.66)         | < 0.001 |
|                | Model 3 | 1.0 | 0.62 (0.40, 0.96)         | 0.034   |

points nd NCPgroup

between CP and RCP group.

RCP

Model 1 adjusted for age and sex.

Model 2 adjusted for age, sex, histories of diabetes mellitus, hypertension, coronary heart disease, dyslipidemia, TIA, cerebral infarction, artrial fibrillation, smoke, alcohol and family history of stroke.

Model 3 adjusted for baseline NIHSS score and year of admission on basis of Model 2.

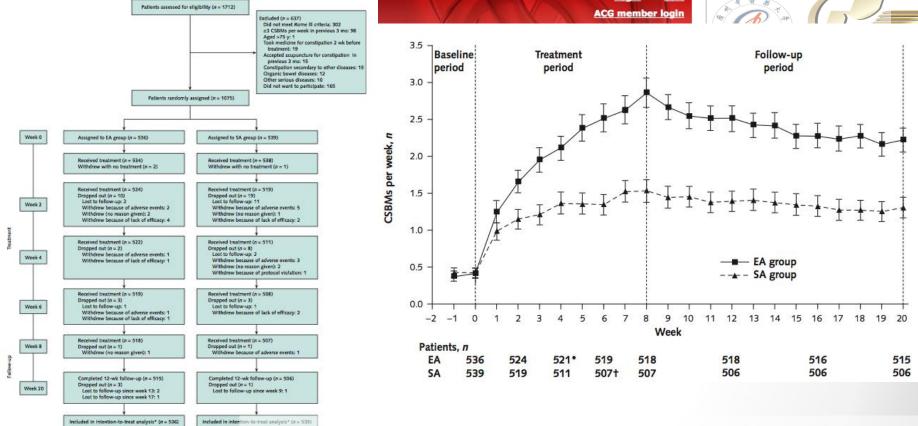
# Conclusion: Combined model on the basis of disease and pattern of Chinese medicine

- With both biomedical and TCM pattern diagnosis
- Apply all kinds of TCM treatments
  - According to the diagnosed pattern of Chinese medicine and at the meantime take the disease biomedical diagnosis into consideration
- More widely adopted in TCM/IM hospitals
  - Both for out-patient and in-patient services
- Safety issues
  - Drug-Herb, Drug-Chinese Patent Products or Drug-Food interactions





# (3) Symptom-based model



There were 1075 patients (536:539) included from 15 sites. Treatment duration: 8 weeks, 28 section of therapy Follow-up: 12 weeks



### Conclusion: Symptom-based model

 For in-patient, biomedical diagnosis, yes; For out-patient, biomedical diagnosis, not necessary

Fixed treatment with or without high level evidences

 Promising in a number of situations, for instance, pain, fatigue, nausea, tight, etc.

#### The concerns in IM service quality





#### Equitable

- (1) Lack of IM service in countryside and remote mountainous regions
- (2) Young people accept less IM service

### Accessible

(3) Indications could not get proper IM service

diseases

- (4) In-patients have trouble to get IM
  - (5) Long time to wait for IM service

#### **Effective**

- (6) Deficiency of skill training (7) Lack of high quality
  - clinical guidance (8) Singleness of therapies

(14) Less of knowledge (17) Fatigue of HCW

causing infectious (21) Lack of IM technician

lack of follow-up (9)Lack of IM standards (10)Lack of high quality clinical evidence

(18)Inadequate instrument

(19)Short for charged

**Concerns in** 

(11) Lack enough education background for description (12) Drug-herb/drug-food/drug

Chinese Patent Products interactions (13) false advertisement

exaggerating effect

Acceptable

(16) Worry about IM/

of IM indications

(15) Fearing needling

Efficient

service kinds

(20) Low service price

**IM** service quality

## Indications for the limitation of proper IM services

#### **IM** therapy

**Politics** 

Discipline setting

- (1) Singleness of therapies
- (2) Inadequate study and training of special IM therapies

- (3) Some IM therapies haven't been charged
- based on disease before having chance to choose IM (5) Patients choose to the department of

(4) Patients was screened

- (6) Lack of complementary 7(8) lack of training condition to various therapies, (9) Senior IM physician e.g. smoke controlling
- instrument for moxibustio (7) Lack of IM technician

- lower the requirement for junior because of affect from narrow disease
- clear on IM indications. (11) Lots of patients lack the knowledge of IM.

(10)Patients are not

his/her disease

**Physician** 

spectrum knowledge

**Patient** 

for the limitation of proper **IM** services

**Indications** 

complementary condition





## Conclusion

- The trend of integrative medicine, especially in inpatient service, cannot be reversed
- The steps of integration need to be based on evidence
- Evidence is a relative rather than absolute concept, when no highly recognized evidences exist, to know as much as you can by following the principle of evidence-based medicine
- "To listen to both sides, you will be enlightened" It will be good for patients, if biomedical doctors and TM/IM doctors may learn more from each other



# Acknowledgement

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