Research Article

Hong Kong Chinese Medicine Clinical Practice Guideline for Cancer Palliative Care: Pain, Constipation, and Insomnia

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It is common for patients with cancers in Hong Kong seeking Chinese Medicine (CM) therapies as supportive care during cancer treatment and to manage treatment-related side effects. This article provides clinical practice guideline (CPG) on the use of CM for specific clinical indications caused by cancer and during cancer treatment, including pain, constipation, and insomnia, and aims to guide local licensed CM practitioners and provide beneficial reference for social medical decision makers and patients. In this manuscript, we summarize the clinical manifestation, CM pattern classification, and CM intervention including herbal treatment, acupuncture treatment, regulating, and nursing based on pattern differentiation.

1. Introduction

According to the most update statistics from the Hong Kong Government, in 2015, number of new cases of cancer in Hong Kong hit a historical high of 30,318 and 14,316 deaths which were attributable to cancers [1]. Multiple studies have pointed out that a significant proportion of cancer patients with moderate to severe pain, nausea, constipation, insomnia, anxiety, and other symptoms can benefit from palliative care [2–4]. Suffering from the symptoms, patients in Hong Kong commonly seek help from complementary and integrative therapies, especially CM, as supportive care during cancer treatment and manage treatment-related side effects [2].

Since CM is well known for its clinical effect in improving the quality of life of cancer patients, in 2014, the Hospital Authority (HA) has been commissioned by the Hong Kong Government to launch a project named “Integrated Chinese-Western Medicine Pilot Programme” [5]. Eligible in-patients at the designated hospitals started receiving CM treatment based on clinical protocol developed by Chinese and Western Medicine experts. The pilot programme aims to explore the development of an Integrated Chinese-Western Medicine (ICWM) treatment model. Therefore, in order to standardize the diagnosis and treatment with CM and provide evidence-based clinical references for both Chinese and Western physicians, the Hong Kong Baptist University is entrusted by the HA to complete the CM CPG development process. The guideline development team, based on thorough analysis of the CM diagnosis and treatment environment in Hong Kong, adopted evidence-based medicine, qualitative research, and text mining techniques to provide the best evidence for the guidelines and completed the development of the guidelines. The guideline development team is based on the principle of multidisciplinary integration. Its members include health care policy makers, medical experts, methodologists, literature experts, and patient representatives.

Unlike other clinical guideline recommendations suggested to be used as the standard of therapy, we use the term “recommendation” to conclude CM treatments should be considered as a viable but not singular option for the management of a specific CM pattern. As CM contributes tailoring
2.2. Data Mining Process. After retrieving data from SinoMed, we listed the data order by download order. In order to transfer the interesting data into the framework of structured file system, a tool has been developed (software copyright with submitted ID 0261882 and registered ID 2010SR073409) to transfer its plain TXT data into Microsoft® SQL Server® 2008 R2 Enterprise Edition. Then we use a data slicing algorithm "discrete derivatives" based on the calculation of frequency with detailed algorithm described in our previous research [30], to filter high frequencies of (1) CM pattern classification and symptom differentiation; (2) herbal decoction; (3) acupuncture treatment. The data mining process was deployed on source data collected above with cancer and specified symptoms.

2.3. Existing Clinical Evidence Searching. With searching strategy, a combination of electronic and manual screening was adopted for systematic reviews of CM treatment on relevant symptoms. Cochrane guidelines were applied for methodological evaluation of literature quality. And we used the grades of recommendations and the levels of evidence proposed by Professor Jianping Liu of China designed for traditional medicines [31].

2.4. Hong Kong Local Expert Consensus. On the key issues in the CPG, Delphi survey was applied to collect professional advice from licensed CM practitioners in Hong Kong based on the literature searching and documented clinical evidences. After 2 rounds of surveys, Hong Kong local experts obtained consensus opinions on the contents of the items which will serve as one of the main sources for the formation of CPG.

2.5. Data Synthesis. Information from three aspects, (1) literature hotspots; (2) existing clinical evidence; (3) local expert consensus, is summarized and listed for optional items in CPG. Items with insufficient data support were excluded.

2.6. Review and Consultation. A comprehensive review of the CPG was conducted through an expert consensus meeting and finalized the items for inclusion in the CPG.

2.7. Drafting CPG. The guideline development group developed a framework and drafted the CPG accordingly.

2.8. Promotion. The electronic version of this study will be published on the official websites of the HA and the Hong Kong Registered Chinese Medicine Practitioners Association. Also, publicity and promotion efforts will be conducted to Hong Kong CM practitioners.

2.9. Execution. It is the first time guidelines for CM clinical practice on cancer palliative care are formulated in Hong Kong. The production of this guide is just a beginning and an attempt. More experience and feedback are needed for further summarization.

2.10. Update. CPG development panel will regularly entrust relevant professional personnel to have review through collecting, collating, and analyzing newly emerged evidence. CPG development panel has the responsibility and rights for decisions on the revision. In general, the CPGs need to be revised or updated in the following cases: (1) to include new intervention methods; (2) to provide evidences prove that the existing intervention methods are the best, beneficial, or detrimental; (3) in adding new important
or meaningful conclusions; (4) in generating new medical resources.

3. Main Results

3.1. Definition

3.1.1. CM for Cancer Pain. Cancer pain is a subjective, multidimensional symptom that may affect patients throughout and after the course of the disease and its treatment [32]. It is estimated that one-quarter of cancer patients experience cancer pain at diagnosis, one-third during treatment, and three-quarters during advanced stages [33, 34]. If the cancer pain is not relieved, the patient will feel extremely uncomfortable and may cause fatigue, anxiety, depression, loss of appetite, and other symptoms, and seriously affect the patient's daily activities, self-care ability, and overall quality of life [35]. Cancer pain has long been recorded in ancient CM literatures since Han dynasty with various descriptions and naming on the symptoms. Moreover, many different evidences from reviews and clinical trials have showed that CM treatments were associated with cancer pain relief as well as improving quality of life [36–42].

3.1.2. CM for Cancer Constipation. Constipation is the third common symptom in palliative care cancer patients, only superseded by pain and anorexia [43–45]. It is important to be mentioned that constipation patient groups can be divided into defecation disorders which do not respond to laxatives but cognitive behavioral therapy and opioid induced constipation response to peripherally acting mu-opioid receptor antagonists (PAMORAs) and linaclotide and lubiprostone [45–47]. According to the clinical practice guidelines, a combination of a stimulant (e.g., senna or sodium picosulfate) and an osmotic laxative (e.g., polyethylene glycol or lactulose) is generally recommended [47]. However, over 60% of patients prescribed laxatives reported certain degrees of constipation (e.g., inadequate pushing force, sense of incomplete defecation, or difficult defecation) [48]. Therefore, CM become an alternative choice for researchers and cancer patients. According to the CM theory, constipation can be broadly divided into different patterns based on the underlying etiology and severity [49]. Similar to cancer pain, evidences present in CM herbal, acupuncture, regulating, and nursing treatments in form of reviews and clinical trials [50–55].

3.1.3. CM for Cancer Insomnia. Insomnia is one of the most common symptoms experienced by cancer patients before, during and after cancer-related treatment with prevalence rates of 30%–70% [56–63]. And it has significant correlation to psychological distress, reduces physical functioning, and impairs quality of life in cancer patients [64–66]. Although insomnia has high prevalence and negative consequences, it is often neglected and undertreated [67]. In CM theory, treatments can be designed to treat the full range of physical and emotional disorders because they are interlocking each other. Currently, evidence supports the use of CM herbal treatment in cancer therapy related insomnia in both cancer patients and survivors [68]. In addition, emerging researches suggest that, not limited to herbal medicine, acupuncture and nursing are also useful for treatment of commonly occurring cancer-related psychological symptoms [54, 69, 70]. As a result, patients and providers alike are interested in the evidence-based nonpharmacologic alternatives such as CM therapy for these symptoms [71].

3.2. Clinical Manifestation. CPG development panel consulted the patterns classification based on (1) literature hotspots; (2) existing clinical evidence; (3) local expert consensus and then determined 6 common CM patterns of cancer pain, 4 common CM patterns of cancer constipation, and 5 common CM patterns of cancer insomnia (Tables 1–4).

With the classification of patterns above, clinical CM practitioners can refer to the recommended pattern-related treatment methods. Based on further symptom differentiation and combine diagnosis, CM practitioners can tailor best-fit therapy for every patient.

4. CM Intervention

4.1. Herbal Treatment (Tables 5–7). CM herbal medicine is applied commonly in intervention of cancer pain, constipation, and insomnia which can also cooperate with acupuncture or other comprehensive treatment options such as regulation and nursing. For patients with concurrent patterns and presented as complicated patterns, CM contributes tailoring treatment based on symptom differentiation; therefore, combination-based approaches can be considered.

In daily practice, patterns of pain, constipation, and insomnia are not completely consistent to the descriptions in defined CM patterns. Therefore, cross reference should be consulted. It is recommended that prescription should be on the base of comprehensive consideration of type of cancer, pattern, and symptom. For instance, pattern of qi movement stagnation is one of the most common cancer-related pain patterns in clinical. If patient complicates with symptoms of phlegm and blood stasis on this basis, the pattern could be treated as qi movement stagnation in coordination with combination of phlegm and blood stasis pattern; moreover, modified diagnosis is recommended based on the cancer type, characteristics of qi, phlegm, blood, and pain symptom. When clinical effects are not optimal, the relationship among various points of pattern differentiation such as deficiency and excess, cold and heat, qi and blood, dredging and descending, and pathological products should be comprehensively taken into account. Besides, other patterns differentiation methods, for example, microcosmic pattern differentiation, could be utilized to search possible reasons.

According to the yin and yang sleep theory of CM, the yang qi rises during the daytime and reaches apex at noon. Combined with the understanding of modern time
Table 1: Common CM patterns of cancer pain, constipation, and insomnia.

<table>
<thead>
<tr>
<th>Cancer associated symptom</th>
<th>Common CM pattern classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pain</td>
<td>(1) Qi movement stagnation</td>
</tr>
<tr>
<td></td>
<td>(2) Phlegm-dampness congealing</td>
</tr>
<tr>
<td></td>
<td>(3) Static blood obstructing</td>
</tr>
<tr>
<td></td>
<td>(4) Qi stagnation and blood stasis</td>
</tr>
<tr>
<td></td>
<td>(5) Combination of phlegm and blood stasis</td>
</tr>
<tr>
<td></td>
<td>(6) Qi and blood deficiency</td>
</tr>
<tr>
<td>Constipation</td>
<td>(1) Qi and yin deficiency</td>
</tr>
<tr>
<td></td>
<td>(2) Qi movement stagnation</td>
</tr>
<tr>
<td></td>
<td>(3) Blood deficiency</td>
</tr>
<tr>
<td></td>
<td>(4) Yang deficiency</td>
</tr>
<tr>
<td>Insomnia</td>
<td>(1) Liver-qì stagnation</td>
</tr>
<tr>
<td></td>
<td>(2) Liver depression and spleen deficiency</td>
</tr>
<tr>
<td></td>
<td>(3) Qi and blood deficiency</td>
</tr>
<tr>
<td></td>
<td>(4) Qi and yin deficiency</td>
</tr>
<tr>
<td></td>
<td>(5) Heart and spleen deficiency</td>
</tr>
</tbody>
</table>

Table 2: Diagnostic criteria of CM patterns of cancer pain.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qi movement stagnation</td>
<td>Abdominal/chest pain, migratory pain, often aggravated by bad mood, pale tongue with white fur, stringy pulse</td>
</tr>
<tr>
<td>Phlegm-dampness congealing</td>
<td>Cough with shortness of breath, chest/hypochondriac pain, epigastric fullness sensation, cough and spitting inducing pain, unable to supine due to cough and shortness of breath, abdominal distension as drums, feeling heavy dampness like wrap, unbearable abdominal pain, pale or pink tongue with white and greasy fur, slippery pulse</td>
</tr>
<tr>
<td>Static blood obstructing</td>
<td>Stabbing pain, fixed pain, more severe at night, dark purple tongue with static blood spots and white fur, astringent pulse</td>
</tr>
<tr>
<td>Qi stagnation and blood stasis</td>
<td>Pain, or severe pain, breast tenderness in women, sunken or stringy pulse</td>
</tr>
<tr>
<td>Combination of phlegm and blood stasis</td>
<td>Pain, difficulty swallowing, dizziness, greasy fur, stringy pulse.</td>
</tr>
<tr>
<td>Qi and blood deficiency</td>
<td>Pain, dizziness, fatigue, white fur, sunken pulse</td>
</tr>
</tbody>
</table>

Table 3: Diagnostic criteria of CM patterns on cancer constipation.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qi and yin deficiency</td>
<td>Without dry stool, or with dry stool like nuts, spend a lot of time on the toilet straining, shortness of breath, fatigue, flushed cheeks, dizziness with tinnitus, emaciation, relative weakness in the loins and knees</td>
</tr>
<tr>
<td>Qi movement stagnation</td>
<td>Difficult defecation, with or without dry stool, frequent eructation, fullness and pain in abdomen/hypochondrium, thin and greasy fur, stringy pulse.</td>
</tr>
<tr>
<td>Blood deficiency</td>
<td>Dry stool, pale white complexion, palpitation and forgetfulness, dizziness</td>
</tr>
<tr>
<td>Yang deficiency</td>
<td>With or without dry stool, difficult defecation, clear abundant urine, pale white and greenish complexion, cold limb, with preference for warmth and sensitive to cold, cold and pain in the abdomen, feeling of cold and heaviness in the loins and along spinal</td>
</tr>
</tbody>
</table>
Table 4: Diagnostic criteria of CM patterns on cancer insomnia.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liver-qistagnation</td>
<td>Insomnia, constipation, pain, white fur, stringy pulse, or fullness and discomfort in chest/hypochondrium, susceptible sigh</td>
</tr>
<tr>
<td>Liver depression and spleen deficiency</td>
<td>Insomnia, fatigue, pain, white fur, stringy pulse, or fullness and discomfort in chest/hypochondrium, anorexia, sallow complexion</td>
</tr>
<tr>
<td>Qi and blood deficiency</td>
<td>Insomnia, fatigue, hair loss, dizziness, white fur or red tongue with thin fur, thready or weak pulse, feverish palms and soles, night sweats, thirst, shortness of breath with lassitude</td>
</tr>
<tr>
<td>Qi and yin deficiency</td>
<td>Insomnia, fatigue, pain, dizziness, constipation, sunken or thready pulse</td>
</tr>
<tr>
<td>Heart and spleen deficiency</td>
<td>Sleepy, unable to have deep sleep, unsound slumber, difficult to fall back asleep after waking up, palpitation, forgetfulness, general lassitude, anorexia, sallow complexion, flat feeling in mouth with tasteless, abdominal distension after eating, pink tongue with white fur, thready or weak pulse</td>
</tr>
</tbody>
</table>

biology and clinical experience, it is recommended to follow a medicine taking approach stated by an ancient CM practitioner in Ming dynasty that insomnia patients are required to take the medicine one hour after lunch and one hour after dinner (grading of recommendation: C§; level of evidence: IV).

4.2. Acupuncture Treatment (Tables 8–10). Acupuncture is another treatment option to treat a variety of symptoms and conditions associated with cancer and the side effects of cancer treatments. It is a family of procedures involving stimulation of anatomical locations on the skin by a variety of techniques. The most studied mechanism of stimulation of acupuncture points uses penetration of the skin by thin, solid, metallic needles, which are manipulated manually or by electrical stimulation [72].

Acupoints recommended for treatment of lung cancer pain are He Gu (LI14), Nei Guan (PC6), and Kong Zui (LU6), for treatment of liver cancer pain are He Gu (LI14), Nei Guan (PC6), Yang Ling Quan (GB34), and Zhong Du (LR6), and for treatment of intestinal cancer are He Gu (LI14), Nei Guan (PC6), Zhong Wan (RN12), Zu San Li (ST36), and Zhi Gou (SJ6) (grading of recommendation: B§; level of evidence: IIa).

4.3. Regulating and Nursing

4.3.1. Regulating on Cancer Pain. Herbal dishes, static qigong, qigong exercise, ointment or medicinal oil for external use, bloodletting, auricular point (auricular beads), cold compress or hot compress, moxibustion, emotional counseling, sufficient sleep, etc. can be used to relieve cancer pain (grading of recommendation: C§; level of evidence: IV).

4.3.2. Regulating on Cancer Constipation. Develop healthy eating habits, to eat mostly foods derived from vegetables, fruits, and whole grains, often to hydrate and limit spicy, highly fatty, or processed foods. Avoid excessive drinking or eating too much cold food. Strengthen regular physical exercise and avoid sedentary activities, develop regular bowel habits, avoid excessive mental stimulation, and maintain a pleasant mood. For elderly and chronic constipation patients, treating with enema or other external treatments can prevent spending a lot of time on the toilet straining which might induce acne, hematochezia, and even angina pectoris, myocardial infarction, or other symptoms (grading of recommendation: C§; level of evidence: IV).

4.3.3. Prevention and Nursing on Cancer Insomnia. In aspect of prevention, CM theory stated that insomnia is due to disorder of brain function. Therefore, it is important to promote a healthy brain and mind by maintaining pleasant mood and healthy work-life balance (grading of recommendation: B§; level of evidence: IIa/IIIb) [73].

In aspect of nursing, it is to cooperate with CM practitioners in the treatment and care of elderly and disabled patients. Nursing includes basic care and specialist care. Basic nursing work includes daily life care, primary diagnosis and treatment techniques, daily observation, nutrition, disinfection and isolation, and hygiene, in order to establish proper environment to relief insomnia. There should be time for mind relaxing before going to sleep, avoiding spending time on worrying about falling asleep, and avoiding alcohol, caffeine, and nicotine. Appropriate relief exercises should be added after dinner. There is no tea or coffee before going to bed. Turn off the sound while sleeping, pull the curtains down, turn off the lights, and develop good sleep habits. Take Chinese Medicine on time to promptly treat related diseases. On sleep posture, generally, right lateral recumbent position is adopted while supine and prone positions should be avoided. In diet, take diet and health foods that promote sleep. Finally, methods such as medicine pillow, massage, and herbal dishes are also recommended for insomnia patients (grading of recommendation: B§; level of evidence: IIIb) [73].
<table>
<thead>
<tr>
<th>Pattern</th>
<th>Pathogenesis and treatment principle</th>
<th>Recipe and ingredient herbs</th>
<th>Grading and level</th>
</tr>
</thead>
</table>
| Qi movement stagnation               | Pathogenesis: Liver qi depression, qi depression and blood stagnation  
Principle: Soothe the liver and regulate qi, activate blood to relieve pain | Modified Chai Hu Shu Gan San:  
Chai Hu (Bupleuri Radix), Qing Pi (Citri Reticulatae Pericarpium Viride), Chen Pi (Citri Reticulatae Pericarpium Viride), Ba Yue Zha (Fruit of Fiverleaf Akebia), Wu Yao (Linderae Radix), Xiang Fu (Cyperi Rhizoma), Chuan Lian Zi (Toosendan Fructus), Hou Pu (Magnoliae Officinalis Cortex), Yan Hu Suo (Corydalhis Rhizoma), Zhi Shi (Aurantii Fructus Immaturus), Bai Shao (Paeoniae Radix Alba), Fo Shou (Citri Sarcodactylis Fructus)  
Modified Si Ni San:  
Chai Hu (Bupleuri Radix), Bai Shao (Paeoniae Radix Alba), Zhi Shi (Aurantii Fructus Immaturus), Gan Cao (Glycyrrhizae Radix Et Rhizoma) | Grading of recommendation: A<sup>**</sup>  
Level of evidence: Ib [6] |
| Phlegm-dampness congealing          | Pathogenesis: Water-fluid retention, qi movement stagnation  
Principle: Purge the lung to remove water, direct qi downward to relieve pain | Modified Ting Li Da Zao Xie Fei Tang:  
Ting Li Zi (Descurainiae Semen Lepidii Semen), Bai Jie Zi (White Mustard Seed), Ban Xia (Pinelliae Rhizoma), Zhe Bei Mu (Fritillariae Thunbergii Bulbus), Dan Nan Xin (Artisaem Cum Bile), Kun Bu (Laminariae Thallus Echondiae Thallus), Gu Lou (Trichosanthis Fructus), Huang Yao Zi (Dioscorea Bulbilera), Da Zao (Jujubae Fructus), Chen Pi (Citri Reticulatae Pericarpium Viride) | Grading of recommendation: C<sup>**</sup>  
Level of evidence: IV |
| Static blood obstructing            | Pathogenesis: Static blood retention, meridians and collaterals obstruction  
Principle: Activate blood and resolve stasis, dispel stasis to relieve pain | Modified Tao Hong Si Wu Tang:  
Dang Gui (Angelicae Sinensis Radix), Chi Shao (Paeoniaeradix Rubra), Chuan Xiong (Chuanxiong Rhizoma), Dan Shen (Salviae Millirrhizae Radix Et Rhizoma), Yan Hu Suo (Corydalhis Rhizoma), San Qi (Notoginseng Radix Et Rhizoma), Ru Xiang (Olibanum), Mo Yao (Myrrha)  
Modified Fu Yuan Huo Xue Tang:  
Chai Hu (Bupleuri Radix), Tian Hua Fen (Trichosanthis Radix), Dang Gui (Angelicae Sinensis Radix), Hong Hua (Carthami Flos), Gan Cao (Glycyrrhizae Radix Et Rhizoma), Chuan Shan Jia (Manis Squama), Da Huang (Rhei Radix Et Rhizoma), Tao Ren (Persicae Semen) | Grading of recommendation: B<sup>**</sup>  
Level of evidence: Ia [6] |
| Qi stagnation and blood stasis      | Pathogenesis: Qi movement stagnation, static blood retention  
Principle: Activate blood and resolve stasis, move qi to relieve pain | Modified Ge Xia Zhu Yu Tang:  
Wu Ling Zhi (Faeces Trogopterpri), Dang Gui (Angelicae Sinensis Radix), Chuan Xiong (Chuanxiong Rhizoma), Tao Ren (Persicae Semen), Mu Dan Pi (Moutan Cortex), Chi Shao (Paeoniaeradix Rubra), Wu Yao (Linderae Radix), Yan Hu Suo (Corydalhis Rhizoma), Gan Cao (Glycyrrhizae Radix Et Rhizoma), Xiang Fu (Cyperi Rhizoma), Hong Hua (Carthami Flos), Zhi Qiao (Aurantii Fructus)  
Modified Xue Fu Zhu Yu Tang:  
Tao Ren (Persicae Semen), Hong Hua (Carthami Flos), Dang Gui (Angelicae Sinensis Radix), Di Huang (Rehmanniae Radix), Niu Xi (Achyranthis Bidentatae Radix), Chuan Xiong (Chuanxiong Rhizoma), Jie Geng (Platycodonis Radix), Chi Shao (Paeoniaeradix Rubra), Zhi Qiao (Aurantii Fructus), Gan Cao (Glycyrrhizae Radix Et Rhizoma), Chai Hu (Bupleuri Radix) | Grading of recommendation: B<sup>**</sup>  
Level of evidence: Ia [7–10] |
<table>
<thead>
<tr>
<th>Pattern</th>
<th>Pathogenesis and treatment principle</th>
<th>Recipe and ingredient herbs</th>
<th>Grading and level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combination of phlegm and blood stasis</td>
<td>Pathogenesis: Depressed gallbladder with harassing phlegm, static blood internal bind Principle: Regulate qi to resolve phlegm, activate blood to relieve pain</td>
<td>Modified Wen Dan Tang: Ban Xia (Pinelliae Rhizoma), Zhu Ru (Bambusae Caulis In Taenias), Zhi Shi (Aurantii Fructus Immaturus), Chen Pi (Citri Reticulatae Pericarpium Viride), Gan Cao (Glycyrrhizae Radix Et Rhizoma), Fu Ling (Poria) Modified Xue Fu Zhu Yu Tang: Tao Ren (Persicae Semen), Hong Hua (Carthami Flos), Dang Gui (Angelicae Sinensis Radix), Di Huang (Rehmanniae Radix), Niu Xi (Achyranthis Bidentatae Radix), Chuan Xiong (Chuanxiong Rhizoma), Jie Geng (Platycodonis Radix), Chi Shao (Paoniaeradix Rubra), Zhi Qiao (Aurantii Fructus), Gan Cao (Glycyrrhizae Radix Et Rhizoma), Chai Hu (Bupleuri Radix) Modified Si Wu Tang plus Er Chen Tang: Dang Gui (Angelicae Sinensis Radix), Chi Shao (Paoniaeradix Rubra), Chuan Xiong (Chuanxiong Rhizoma), Di Huang (Rehmanniae Radix), Chen Pi (Citri Reticulatae Pericarpium Viride), Fa Ban Xia (Pinelliae Rhizoma Praeparatum), Fu Ling (Poria), Gan Cao (Glycyrrhizae Radix Et Rhizoma), Hai Zao (Sargassum), Hong Hua (Carthami Flos), Xiang Fu (Cyperi Rhizoma), Mu Dan Pi (Moutan Cortex)</td>
<td>Grading of recommendation: B§ Level of evidence: Ia [8–11]</td>
</tr>
<tr>
<td>Qi and blood deficiency</td>
<td>Pathogenesis: Dual deficiency of qi and blood, viscera and bowels with cachexia Principle: Tonify and harmonize the blood, resolve stasis to relieve pain</td>
<td>Modified Si Wu Tang: Shu Di Huang (Rehmanniae Radix Praeparata), Bai Shao (Paoniae Radix Alba), Dang Gui (Angelicae Sinensis Radix), Chuan Xiong (Chuanxiong Rhizoma), Huang Qi (Astragali Radix), Bai Zhu (Atractylodis Macrocephalae Rhizoma)</td>
<td>Grading of recommendation: C§ Level of evidence: IV</td>
</tr>
</tbody>
</table>
### Table 6: Herbal treatment on cancer constipation.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Pathogenesis and treatment principle</th>
<th>Recipe and ingredient herbs</th>
<th>Grading and level</th>
</tr>
</thead>
</table>
| Qi and yin deficiency | Pathogenesis: Spleen-lung qi deficiency, fluid-humor deficiency  
Principle: Tonify the spleen and lung, enrich yin and increase humor | Modified Zeng Ye Tang:  
Xuan Shen (Scrophulariae Radix), Mai Dong (Ophiopogonis Radix),  
Di Huang (Rehmanniae Radix), Dang Gui (Angelicae Sinensis Radix),  
Yu Zhu (Polygonatiodoratirhiza), Bei Sha Shen (Glehniae Radix),  
Huang Qi (Astragali Radix) | Grading of recommendation: B<sup>6</sup>  
Level of evidence: IIa [12–15] |
| Qi movement stagnation | Pathogenesis: Liver and spleen qi stagnation, bowel qi block  
Principle: Favor qi and remove food stagnation, direct qi downward to relax the bowels | Modified Liu Mo Tang:  
Bing Lang (Arecaesemen), Chen Xiang (Aquilariae Lignum Resinatum),  
Mu Xiang (Aucklandiae Radix), Wu Yao (Linderae Radix), Da Huang (Rhei Radix Et Rhizoma), Zhi Qiao (Aurantii Fructus) | Grading of recommendation: C<sup>6</sup>  
Level of evidence: IV |
| Blood deficiency | Pathogenesis: Blood deficiency, intestines with cachexia  
Principle: Tonify blood and enrich yin, moisten dryness to relax the bowels | Modified Liu Mo Tang:  
Bing Lang (Arecaesemen), Chen Xiang (Aquilariae Lignum Resinatum),  
Mu Xiang (Aucklandiae Radix), Wu Yao (Linderae Radix), Da Huang (Rhei Radix Et Rhizoma), Zhi Qiao (Aurantii Fructus) | Grading of recommendation: C<sup>6</sup>  
Level of evidence: IV |
| Yang deficiency | Pathogenesis: Yang deficiency and debilitation, yin and cold congealing and bind  
Principle: Tonify the kidney and warm yang, moisten the intestines to relax the bowels | Modified Ji Chuan Jian:  
Dang Gui (Angelicae Sinensis Radix), Niu Xi (Achyranthis Bidentatae Radix),  
Rou Cong Rong (Cistanches Herba), Ze Xie (Alismatis Rhizoma),  
Sheng Ma (Cimicifugae Rhizoma), Zhi Qiao (Aurantii Fructus) | Grading of recommendation: B<sup>6</sup>  
Level of evidence: IIa [16] |
Table 7: Herbal treatment on cancer insomnia.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Pathogenesis and treatment principle</th>
<th>Recipe and ingredient herbs</th>
<th>Grading and level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liver-qí stagnation</td>
<td>Pathogenesis: Liver failing in free coursing, qí movement stagnation Principle: Soothe the liver and release the stagnation</td>
<td>Modified Chai Hu Shu Gan San: Chai Hu (Bupleuri Radix), Bai Shao (Paeoniae Radix Alba), Chen Pi (Citri Reticulatae Pericarpium Viride), Xiang Fu (Cyperi Rhizoma), Chuan Xiong (Chuanxiong Rhizoma), Zhi Qiao (Aurantii Fructus), Gan Cao (Glycyrrhizae Radix Et Rhizoma)</td>
<td>Grading of recommendation: C&lt;sup&gt;Ⅵ&lt;/sup&gt; Level of evidence: IV</td>
</tr>
<tr>
<td>Liver depression and spleen deficiency</td>
<td>Pathogenesis: Liver depression and blood deficiency, spleen-stomach weakness Principle: Harmonize the liver and spleen, Soothe the liver and release the stagnation</td>
<td>Modified Xiao Yao San: Chai Hu (Bupleuri Radix), Danshén (Angelicae Sinensis Radix), Bai Shao (Paeoniae Radix Alba), Bo He (Menthae Haplocalycis Herba), Fu Ling (Poria), Sheng Jiang (Zingiberae Rhizoma Recens), Da Zao (Jujubae Fructus)</td>
<td>Grading of recommendation: C&lt;sup&gt;Ⅵ&lt;/sup&gt; Level of evidence: IV</td>
</tr>
<tr>
<td>Qi and blood deficiency</td>
<td>Pathogenesis: Dual deficiency of qí and blood Principle: Tonify qí and replenish blood</td>
<td>Modified Ba Zhen Tang: Huang Qi (Astragali Radix), Fu Ling (Poria), Bai Zhu (Atractylodis Macrocephalae Rhizoma), Dang Gui (Angelicae Sinensis Radix), Chuan Xiong (Chuanxiong Rhizoma), Shu Di Huang (Rehmanniae Radix Praeparata), Yang Ren (Codonopsis Radix), Mu Jin (Curcumae Radix), Mǎ Xía (Aucklandiae Radix), Suan Zao Ren (Ziziphis pinaeae semen), Yuan Zhi (Polygonae Radix), Zhi Gan Cao (Glycyrrhizae Radix Et Rhizoma Praeparata cum Melle)</td>
<td>Grading of recommendation: B&lt;sup&gt;Ⅵ&lt;/sup&gt; Level of evidence: Ila [17, 18]</td>
</tr>
<tr>
<td>Qi and yin deficiency</td>
<td>Pathogenesis: Dryness damaging the lung and stomach, fluid-humor depletion Principle: Tonify the lung and stomach, engender fluid and moisten dryness</td>
<td>Modified Si Jun Zǐ Tang plus Shā Can Mǎi Dōng Tang: Huang Qi (Astragali Radix), Bai Zhu (Atractylodis Macrocephalae Rhizoma), Bei Sha Shen (Glehniae Radix), Tian Dong (Asparagi Radix), Mǎi Dōng (Ophiopogonis Radix), Gua Lou Pi (Trichosanthis Pericarpium), Shi Shāng Bāi (Selaginella Doederleinii Hieron.), Shì Jiān Chūn (Salviae Chinensis Benth.), Bái Huá She She Cǎo (Spreading Hedyotis Herb), Chān Pí (Bufo Melanoschistus Schneider), Xī Kū Cǎo (Prunellae Spica), Mù Li (Ostreae Concha)</td>
<td>Grading of recommendation: B&lt;sup&gt;Ⅵ&lt;/sup&gt; Level of evidence: Ila [19]</td>
</tr>
<tr>
<td>Heart and spleen deficiency</td>
<td>Pathogenesis: Heart blood deficiency, spleen qi deficiency Principle: Tonify qí and fortify the spleen, nourish the heart to tranquilize</td>
<td>Modified Ren Shen Gui Pi Tang: Ren Shen (Ginseng Radix Et Rhizoma), Bai Zhu (Atractylodis Macrocephalae Rhizoma), Huang Qi (Astragali Radix), Dang Gui (Angelicae Sinensis Radix), Yuan Zhi (Polygonae Radix), Suan Zao Ren (Ziziphis pinaeae semen), Fu Shen (Tuckahoe With Pine), Mu Xiăng (Aucklandiae Radix), Long Yán Róng (Legan Arillus), Shēng Jiāng (Zingiberae Rhizoma Recens), Dā Zǎo (Jujubae Fructus), Gǎn Cǎo (Glycyrrhizae Radix Et Rhizoma)</td>
<td>Grading of recommendation: C&lt;sup&gt;Ⅵ&lt;/sup&gt; Level of evidence: IV</td>
</tr>
</tbody>
</table>
### Table 8: Acupuncture on cancer pain.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Acupuncture point</th>
<th>Grading and level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main acupoints for all cancer pain patterns: He Gu (LI4), Tai Chong (LR3), A Shi points</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qi movement stagnation</td>
<td>Nei Guan (PC6), Gong Sun (SP4), Qi Men (LR14), Zhong Wan (RN12), Zhi Gou (SJ6)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Phlegm-dampness congealing</td>
<td>Zu San Li (ST36), Feng Long (ST40), Yin Ling Quan (SP9)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Static blood obstructing</td>
<td>Xue Hai (SPI0), Ge Shu (BL17), Dan Zhong (RN17), San Yin Jiao (SP6), Nei Guan (PC6)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Qi stagnation and blood stasis</td>
<td>Nei Guan (PC6), Xue Hai (SPI0), Ge Shu (BL17), Liang Qiu (ST34)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Combination of phlegm and blood stasis</td>
<td>Feng Long (ST40), Xue Hai (SPI0), Zu San Li (ST36), San Yin Jiao (SP6), Nei Guan (PC6)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Qi and blood deficiency</td>
<td>Qi Hai (RN6), Zhong Wan (RN12), Zu San Li (ST36), Xue Hai (SPI0), Pi Shu (BL20), Fei Shu (BL13), San Yin Jiao (SP6)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
</tbody>
</table>

### Table 9: Acupuncture on cancer constipation.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Acupuncture point</th>
<th>Grading and level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main acupoints for all cancer constipation patterns: Tian Shu (ST25), Zu San Li (ST36), Shang Ju Xu (ST37), Da Chang Shu (BL25), Zhi Gou (SJ6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qi and yin deficiency</td>
<td>Tai Xi (KI3), Yin Ling Quan (SP9), San Yin Jiao (SP6), Xue Hai (SPI0), Tong Li (HT5), Pi Shu (BL20), Shen Shu (BL23)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Qi movement stagnation</td>
<td>Zhong Wan (RN12), Xing Jian (LR2)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
<tr>
<td>Yang deficiency</td>
<td>Shen Que (RN8), Qi Hai (RN6)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
</tbody>
</table>

### Table 10: Acupuncture on cancer insomnia.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Acupuncture point</th>
<th>Grading and level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main acupoints for all cancer insomnia patterns: Shen Men (HT7), San Yin Jiao (SP6), Bai Hui (DU20)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heart and spleen deficiency</td>
<td>Xin Shu (BL15), Jue Yin Shu (BL14), Pi Shu (BL20)</td>
<td>Grading of recommendation: C(\textsuperscript{4}) Level of evidence: IV</td>
</tr>
</tbody>
</table>
Data Availability

Details of data mining, selection, extraction, and assessment carried out to support the findings of this study are available from the corresponding author upon request.

Conflicts of Interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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References


Evidence-Based Complementary and Alternative Medicine


