World Journal of Gastroenterology

World J Gastroenterol 2022 March 21; 28(11): 1088-1186





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The WJG is now indexed in Current Contents[®]/Clinical Medicine, Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports®, Index Medicus, MEDLINE, PubMed, PubMed Central, and Scopus. The 2021 edition of Journal Citation Report® cites the 2020 impact factor (IF) for WJG as 5.742; Journal Citation Indicator: 0.79; IF without journal self cites: 5.590; 5-year IF: 5.044; Ranking: 28 among 92 journals in gastroenterology and hepatology; and Quartile category: Q2. The WJG's CiteScore for 2020 is 6.9 and Scopus CiteScore rank 2020: Gastroenterology is 19/136.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ying-Yi Yuan; Production Department Director: Xiang Li; Editorial Office Director: Ze-Mao Gong.

NAME OF JOURNAL

World Journal of Gastroenterology

ISSN 1007-9327 (print) ISSN 2219-2840 (online)

LAUNCH DATE

October 1, 1995

FREOUENCY

Weekly

EDITORS-IN-CHIEF

Andrzei S Tarnawski

EDITORIAL BOARD MEMBERS

http://www.wignet.com/1007-9327/editorialboard.htm

PUBLICATION DATE

March 21, 2022

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DOI: 10.3748/wjg.v28.i11.1184

World J Gastroenterol 2022 March 21; 28(11): 1184-1186

ISSN 1007-9327 (print) ISSN 2219-2840 (online)

LETTER TO THE EDITOR

New treatment for gastroesophageal reflux disease: Traditional Chinese medicine Xiaochaihu decoction

Li-Ying Xu, Bin-Yan Yu, Lu-Sha Cen

Specialty type: Gastroenterology and hepatology

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): 0 Grade C (Good): 0 Grade D (Fair): D, D Grade E (Poor): 0

P-Reviewer: Tadros M, Tang F

Received: August 26, 2021 Peer-review started: August 26,

First decision: September 4, 2021 Revised: September 17, 2021 Accepted: February 23, 2022 Article in press: February 23, 2022 Published online: March 21, 2022



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Abstract

Gastroesophageal reflux disease (GERD) has a high prevalence worldwide. Li et al performed a well-designed study on the efficacy of modified Xiaochaihu decoction (MXD) for GERD, which showed that MXD is an optional therapy for GERD beyond proton pump inhibitors (PPIs). The herbal granule administration mode minimized the bias from traditional herbal formula in clinical trials. One limitation of that study was that it lacked records of side effects and rescue medication. As a chronic disease with recurrent symptoms, GERD rehabilitation requires prolonged observation of the clinical course with MXD therapy.

Key Words: Gastroesophageal reflux disease; Xiaochaihu decoction; New treatment; Traditional Chinese medicine; Modified Xiaochaihu decoction; Chronic disease

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Core Tip: Modified Xiaochaihu decoction (MXD) has been applied for gastroesophageal reflux disease (GRED) for thousands of years in Asian countries. Li et al proved that MXD is an ideal optional therapy for GERD. The drug selection of herbal granule makes double-blind research achievable. Side effects of MXD should be noted. As a chronic disease, GERD rehabilitation requires prolonged observation of the clinical course with MXD therapy.

Citation: Xu LY, Yu BY, Cen LS. New treatment for gastroesophageal reflux disease: Traditional Chinese medicine Xiaochaihu decoction. World J Gastroenterol 2022; 28(11): 1184-1186

URL: https://www.wjgnet.com/1007-9327/full/v28/i11/1184.htm

DOI: https://dx.doi.org/10.3748/wjg.v28.i11.1184

TO THE EDITOR

We read with interest a clinical study by Li et al[1]. The researchers performed a prospective, doubleblinded, and double-simulation study on the efficacy of modified Xiaochaihu decoction (MXD) for gastroesophageal reflux disease (GERD) and its effect on esophageal motility. The study enrolled 288 participants with GERD, and then divided them into the treatment and control groups, receiving MXD plus omeprazole simulation and omeprazole plus MXD simulation, respectively, for 4 wk. The GERD-Q scale score and esophageal manometry were evaluated. The results showed that MXD had a similar ability to increase the pressure at the lower esophageal sphincter and reduce ineffective swallowing, compared with omeprazole in mild-to-moderate GERD. The recurrence rate was significantly lower than that of the control group within 3 mo at follow-up visits. We greatly appreciate the dedication of the authors towards studying the effect of MXD on GERD as an optional therapy.

As we all know, GERD has a high global prevalence with limited therapeutic options, and its incidence is increasing annually. Patients with GERD present with a variety of symptoms including heartburn, effortless regurgitation, dyspepsia, bloating, and abdominal pain or discomfort, as well as cough and laryngitis, which severely impact their quality of life[2]. Since the 1990s, proton pump inhibitor (PPI) therapy has evolved as the standard treatment of choice for GERD[3]. However, it has become evident that symptoms attributed to GERD remain despite ongoing PPI treatment in up to 40% of patients[4], and PPI therapy increases the risks of infections, osteoporosis, hepatic failure, pancreatitis, jaundice, and persistent gynecomastia [5-7]. Therefore, multivariable treatment beyond PPIs is urgently required.

Traditional Chinese medicine theory believes that the herb Chaihu could regulate qi-flow to harmonize digestive disorders. The formula Xiaochaihu decoction, which has demonstrated therapeutic effects such as for nausea, poor appetite, and epigastric distension, has been used in treating GERD for thousands of years in Asian countries. However, high-level evidence-based traditional Chinese medical research is still lacking and is restricted by many factors. For instance, the herb formula is customized according to patient characteristics including severity of disease, gender, and age. Besides, pharmaceutical effects may be influenced by the way that Chinese herbs are decocted. Thus, it is hard to provide the same drug dose for each patient. In this research, drug selection of herbal granules makes double-blind research achievable. For the concealed allocation, herbal granules were supplied instead of traditional decoction, which greatly reduced the bias from herb treatment.

A limitation of this study was a lack of record keeping of the side effects and rescue medications. With the growing popularity of traditional Chinese medicines, reports of herbal side effects are common. Bupleurum, the main component of MXD, was found to increase the risk of chronic hepatotoxicity[8,9]. Meanwhile, Itoh et al[10] reported that long-term oral administration of MXD caused cholestatic liver injury, interstitial pneumonia, and even death[10]. Therefore, medical safety evaluation tests, such as liver and kidney function indices, should be assessed. Rescue medication or treatment for these adverse events should also be considered.

Besides, although the sample size was well calculated according to previous literature reports and formula, the sample size for esophageal manometric indicators, which was from 7-52, was relatively

The authors mainly focused on the efficiency of MXD therapy for a short duration. As we know, GERD is generally a chronic disease with recurrent symptoms and requires long-term management [11]. Further studies are needed to evaluate the effects of prolonged MXD therapy on GERD rehabilitation.

FOOTNOTES

Author contributions: Xu LY and Cen LS designed the research; Yu BY analyzed the data; Xu LY and Cen LS performed the research and wrote the letter; Cen LS revised the letter.

Supported by Scientific Research Project of Zhejiang TCM Science and Technology Programme, No. 2020ZB067, No. 2020ZT001, and No. 2021ZQ031; and National Natural Science Foundation of China, No. 81503522 and No. 82104862.

Conflict-of-interest statement: The authors declare no conflicts of interest for this article.

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S-Editor: Fan JR L-Editor: Wang TQ P-Editor: Fan JR

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