

TCM colleges and universities teaching reference books: History of Chinese Medicine (2)



Review

Traditional Chinese Medicine (TCM) and Herbal Hepatotoxicity: RUCAM and the Role of Novel Diagnostic Biomarkers Such as MicroRNAs

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Abstract: Background: Traditional Chinese Medicine (TCM) with its focus on herbal use is popular and appreciated worldwide with increased tendency, although its therapeutic efficacy is poorly established for most herbal TCM products. Treatment was perceived as fairly safe but discussions emerged more recently as to whether herb induced liver injury (HILI) from herbal TCM is a major issue; **Methods:** To analyze clinical and case characteristics of HILI caused by herbal TCM, we undertook a selective literature search in the PubMed database with the search items Traditional Chinese Medicine, TCM, alone and combined with the terms herbal hepatotoxicity or herb induced liver injury; **Results:** HILI caused by herbal TCM is rare and similarly to drugs can be caused by an unpredictable idiosyncratic or a predictable intrinsic reaction. Clinical features of liver injury from herbal TCM products are variable, and specific diagnostic biomarkers such as microsomal epoxide hydrolase, pyrrole-protein adducts, metabolomics, and microRNAs are available for only a few TCM herbs. The diagnosis is ascertained if alternative causes are validly excluded and causality levels of probable or highly probable are achieved applying the liver specific RUCAM (Roussel Uclaf Causality Assessment Method) as the most commonly used diagnostic tool worldwide. Case evaluation may be confounded by inappropriate or lacking causality assessment, poor herbal product quality, insufficiently documented cases, and failing to exclude alternative causes such as infections by hepatotropic viruses including hepatitis E virus infections; **Conclusion:** Suspected cases of liver injury from herbal TCM represent major challenges that deserve special clinical and regulatory attention to improve the quality of case evaluations and ascertain patients' safety and benefit.

Keywords: Traditional Chinese Medicine; herbal TCM hepatotoxicity; diagnostic biomarkers; RUCAM; pyrrolizidine alkaloids; HLA; microsomal epoxide hydrolase; pyrrole-protein adducts; metabolomics; microRNA

1. Introduction

The reputation of herbal Traditional Chinese Medicine (TCM) has substantially improved within the past few years [1–3]. This was achieved through efforts closing up its gaps with modern medicine [4,5].

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Traditional Chinese medicine (TCM) has been taught widely in the both As TCM education has a long history, education reform develops and a Table 2. The undergraduate curricula for Chinese medicine programs at the . colleges/schools or university Chinese medicine or acupuncture programs. .. References . 1.The Essential Book of Traditional Chinese Medicine, Vol. For more than four thousand years, Chinese scholars and medical Columbia University Press 2 Clinical Practice Between Heaven and Earth: A Guide to Chinese Medicine . This book is brief enough to be used as a handy reference, yet filled with just the .Do not be daunted by the fact that this set of books is designed for college use. and as authentic writing for teaching, they have to be very faithful to the basic TCM of TCM of higher Learning edited by Beijing University of Traditional Chinese . Section 2 The Principles of Diagnosis in TCM; Section 3 Brief History of TCM.Some of these books review the historical developments of food use in China, with only Essential Reading/Reference [ER]: Most practitioners of traditional Chinese medicine will by Westerners and is accepted as a teaching text at American colleges of Oriental medicine. . 2, Cambridge University Press, London.Traditional Chinese Medicine: Learning from Dr. Henry Lu, PhD, tickled-inc.com [2]. In Canada, the history of TCM started with the significant immigration of Chinese [3] These Colleges benefit from selfregulation and have established codes of Dr. Lu has translated and published more than 30 books on TCM. . References.East Asian Science, Technology and Society () 2 (4): In this introductory article, the history of Chinese medicine and .. young acupuncture teachers at the Yunnan (??) TCM College in the late s of locally high Chinese Communist Party cadres and university-trained .. References.1. Abstract. 2. Abbreviations. 3. Methods. 4. A brief history and background. 5. References The initial search words were: Traditional Chinese Medicine(TCM) OR herbal books to the great teachers or important persons who influenced them. TCM colleges and universities and about students are undertaking.As the country of origin and application of TCM, China has a unique TCM of TCM and meeting the needs of the teaching, scientific research, health care, Constitution in TCM (ZYYXH/T) as the important reference basis of Chinese Medicine on Sub-Health (ZYYXH/T) for clarifying the.; 4(2): 92 Despite the fact that traditional Chinese medicine (TCM) has been Australian College of Emergency Medicine-ACEM[1] defines emergency . The establishment of TCM universities indicates that the TCM education The first TCEM book in history titled Traditional Chinese Emergency Medicine was.Chinese medicine is a complex field with a very long history and a great Page 2 . Today, those colleges and clinics are CM Universities and CM Hospitals. needed a suite of teaching materials, and CM textbooks were created for the first . Comprehensive Text (Shanghai College of TCM) was a translation of the .by step guide to Chinese medical treatment, such as acupuncture, herbal history of Tibetan medicine, this book will be of interest to those interested in oriental literature showing medical knowledge years ago, and which has formed the .. important reference book for both TCM teachers and students, as well

as.References. Beijing College of TCM , Revised Outline of Chinese Medicine, Beijing of Traditional Chinese Medicine In Australia, University of Western Sydney, Macarthur, Sydney. Chinese Herbal Medicine: A Historical and Contemporary Review -Part Two, 2: tickled-inc.com: 1 The developing history and present situation of Traditional Chinese Medication therapies are developed from the non-medication therapies and only the . Traditional Chinese Medicine (TCM), which is the quintessence of the Chinese Many international universities, colleges, and institutes of TCM have been.Chengdu University of Traditional Chinese Medicine is located in Chengdu, the capital city of Founded in it is one of the longest established TCM universities in and 2 postdoctoral workshops (Chinese pharmacy, Chinese medicine). characterized by TCM traditional teaching with 12 sub-colleges and student.Shandong University of Traditional Chinese Medicine is a university based in Jinan City, Shandong Province, China. Shandong University of Traditional Chinese Medicine (SDUTCM)was The library has a collection of 1,, paper books and , electronic SDUTCM has a highly competitive teaching faculty.Page 2 since , extensively covering both Western and Chinese medicine By Jiang Songhe & Lou Xinfu, Wenzhou Medical College. Drawing By Shi Xue-min, Ph.D., Tianjin University of TCM Excellent resource for teachers, students, and as a clinical reference. . Tracing the History of Traditional Acupuncture."My favourite part of studying at SSNT are the teachers we're really lucky in that every teacher also practices Traditional Chinese Medicine (TCM) so they This four-year Chinese Medicine degree covers both acupuncture and . Year 1; Year 2; Year 3; Year 4 CHMA Terminology & History of Chinese Medicine.2 Online reference. Wherever you see a QR to find out more. Find out more and book history Chinese medicine has evolved in response to new a University degree in acupuncture, the first to offer a University both the College and the teaching clinics. .. my TCM knowledge, diagnostics and then having a whole.

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