

### 1. Personal Information

<b>First Name</b>	Cun-Zhi
<b>Last Name</b>	Liu
<b>Affiliation</b>	Beijing University of Chinese Medicine
<b>Country</b>	China
<b>Department</b>	School of Acupuncture-Moxibustion and Tuina
<b>Degree (Ph.D. / M.D.)</b>	M.D.
<b>E-Mail</b>	lcz623780@126.com

### 2. Curriculum Vitae

#### ◆ Educational Background & Experience

Year	Affiliation	Position
07/2020- present	School of Acupuncture-Moxibustion and Tuina, Beijing University of Chinese Medicine	Dean
11/2018 - 07/2020	School of Acupuncture-Moxibustion and Tuina, Beijing University of Chinese Medicine	Vice Dean
01/2018-11/2018	Dongfang Hospital, Beijing University of Chinese Medicine	Vice Dean
05/2009 - 01/2018	Beijing Hospital of Traditional Chinese Medicine affiliated to Capital Medical University	Chief
09/2004 - 05/2009	The First Affiliated Hospital of Tianjin University of Traditional Chinese Medicine	Associate Professor
08/2001 – 08/2004	Tianjin University of Traditional Chinese Medicine	Ph.D.
08/1998 – 08/2001	Shandong University of Traditional Chinese Medicine	Master of Medicine

#### ◆ Publications

No.	Contents
1	Yang JW, Wang LQ, Zou X, Yan SY, Wang Y, Zhao JJ, Tu JF, Wang J, Shi GX, Hu H, Zhou W, Du Y, Liu CZ*. Effect of Acupuncture for Postprandial Distress Syndrome: A Randomized Clinical Trial. <i>Ann Intern Med.</i> 2020 Jun 16;172(12):777-785.
2	Wang Y, Yang JW, Yan SY, Lu Y, Han JG, Pei W, Zhao JJ, Li ZK, Zhou H, Yang NN, Wang LQ, Yang YC*, Liu CZ*. Electroacupuncture vs Sham Electroacupuncture in the Treatment of Postoperative Ileus After Laparoscopic Surgery for Colorectal Cancer: A Multicenter, Randomized Clinical Trial. <i>JAMA Surg.</i> 2023 Jan 1;158(1):20-27.
3	Tu JF, Yang JW, Shi GX, Yu ZS, Li JL, Lin LL, Du YZ, Yu XG, Hu H, Liu ZS, Jia CS, Wang LQ, Zhao JJ, Wang J, Wang T, Wang Y, Wang TQ, Zhang N, Zou X, Wang Y, Shao JK, Liu CZ*. Efficacy of Intensive Acupuncture Versus Sham Acupuncture in Knee Osteoarthritis: A Randomized Controlled Trial. <i>Arthritis Rheumatol.</i> 2021 Mar;73(3):448-458.

4	Yang JW, Shao JK, Wang Y, Liu Q, Liang JW, Yan SY, Zhou SC, Yang NN, Wang LQ, Shi GX, Pei W*, Liu CZ*. Effect of acupuncture on postoperative ileus after laparoscopic elective colorectal surgery: A prospective, randomised, controlled trial. <i>EClinicalMedicine</i> . 2022 May 27;49:101472
5	Tu JF, Cao Y, Wang LQ, Shi GX, Jia LC, Liu BL, Yao WH, Pei XL, Cao Y, Li HW, Yan SY, Yang JW, Qu ZC*, Liu CZ*. Effect of Adjunctive Acupuncture on Pain Relief Among Emergency Department Patients With Acute Renal Colic Due to Urolithiasis: A Randomized Clinical Trial. <i>JAMA Netw Open</i> . 2022 Aug 1;5(8):e2225735.

### 3. Abstract

Lecture Title	Challenges and advances on acupuncture clinical research methodology
<p>Acupuncture boasts a long-standing history and is one of the most extensively utilized complementary and alternative therapies worldwide. In recent years, the publication of a series of randomized clinical studies on acupuncture has further confirmed its therapeutic effect and promoted the international progress of acupuncture. High-quality clinical research on acupuncture is inseparable from the scientific application of clinical research methodologies. Designing a high-quality acupuncture clinical study and evaluating the therapeutic effect of acupuncture scientifically and reasonably still encounter many challenges. (1) Acupuncture is a complex intervention whose efficacy is influenced by the highly flexible acupuncture scheme and manifests strong non-specific effects, which brings challenges in evaluating acupuncture efficacy. (2) Due to the intrinsic characteristics of acupuncture, the design of sham acupuncture control proves to be challenging. It is tough to design a sham acupuncture control that exhibits no physiological impact and can remain blinded. (3) The dose of acupuncture encompasses numerous intervention factors such as the number of acupoints, stimulation intensity, needle retention time, and acupuncture course. It's difficult to ascertain the dose-effect relationship of acupuncture. In light of the aforementioned challenges, the author presents the following notions. Initially, an evaluation system for acupuncture efficacy should be established in line with the characteristics of acupuncture intervention. Secondly, delving into the methodology of establishing the sham acupuncture control, and dealing with the placebo effect judiciously by diverse study types. Ultimately, the notion of acupuncture dosimetry needs to be precisely defined and the correlation between acupuncture dose and effect should be determined.</p>	