- 1 This supplement contains the following items:
- 2 1. Final protocol, the summary of changes from the published original
- 3 protocol
- 4 2. Final statistical analysis plan, the Summary of Changes of Final SAP.
- 5

6		Effects of electroacupuncture on opioid-induced constipation in patients with
7		cancer: a multicenter randomized controlled trial
8		
9	Cli	nical Sites:
10	1.	Guang'an men Hospital Affiliated to China Academy of Chinese Medical
11		Sciences
12	2.	Guizhou University of Traditional Chinese Medicine
13	3.	The Affiliated Hospital of Nanjing University of Chinese Medicine
14	4.	Hunan University of Chinese Medicine
15	5.	Wangjing Hospital Affiliated to China Academy of Chinese Medical Sciences
16	6.	Yantai Hospital of Traditional Chinese Medicine
17	7.	Zhejiang Hospital
18	_	
19	Da	ta Management and Statistical Centers:
20	Lir	kermed Pharm Technology Co. Ltd, Beijing, China
21		
22	Da	ta:
23	Ori	ginal protocol date: September 30, 2018
24	An	nendment date: November 29, 2019
25		
26		Confidentiality Statement
27	Th	is document is the intellectual property of the Investigators. The information
28	pro	vided in this document is strictly confidential and is available for review to the
29	spc	onsor, investigators, potential investigators, appropriate Ethics Committees,
30	Inv	estigational Review Boards, and other government regulatory bodies. No
31	dis	closure should take place without written authorization from the protocol
32	dev	veloping investigators, except to the extent necessary needed to obtain informed
33	cor	sent from potential subjects.

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180 2. Study Design

181 **2.1 Study Overview**

182 The objective of study is to assess the efficacy of electro-acupuncture (EA) for 183 opioid-induced constipation(OIC) in adult patients with cancer pain.

184 **2.2 Background**

- In advanced diseases, 70-80% of patients experience moderate to severe pain¹. As the
- 186 cornerstone of treatment for moderate to severe cancer pain, opiate analgesics, such as
- 187 morphine and oxycodone, are recommended by WHO Cancer Pain Relief Guidelines²⁻³.
- 188 The use of systemic opioids is recommended by some studies for cancer patients

experiencing moderate to severe pain, regardless of the underlying causes⁴. Opioids 189 stimulate receptors both in the central nervous system (CNS) and the peripheral nervous 190 system, reducing pain and improving quality of life for patients⁵. The drug can, however, 191 be associated with serious adverse events (AEs) with a rate ranging from 1.8% to 192 $13.6\%^{6-7}$, the most common of which is opioid-induced constipation (OIC). OIC 193 represents a change in baseline bowel habits or defecation patterns that occurs following 194 the administration or modification of opioid therapy⁸⁻¹⁰. Approximately 41% of 195 non-cancer patients and 94% of cancer patients who use opioids for pain have this 196 condition¹¹⁻¹². Symptoms of OIC are usually persistent and difficult to tolerate⁹, which 197 adversely affects patients' quality of life^{8, 13-15} and results in reductions in dose or 198 discontinuation of opioid analgesics ¹⁶. OIC is the result of multiple factors contributing 199 to it ¹⁷: Opioids may activate μ -receptors throughout the gastrointestinal tract and cause 200 changes to gut motility, decreases in gut secretion, and an increase in sphincter tone, 201 which can lead to constipation¹⁸. Various pharmacological and nonpharmacological 202 interventions are used to manage OIC, such as laxatives and increased fluid intake^{8-9, 19}. 203 However, these interventions are limited in effectiveness, and they do not address the 204 pathophysiological mechanisms of OIC ⁸⁻⁹. Several peripherally acting μ -opioid receptor 205 antagonists (PAMORAs), such as naloxegol and methylnaltrexone, have recently been 206 shown to be effective in treating OIC patients who do not respond to simple medications 207 ²⁰. However, longer-term efficacy and safety of PAMORAs are unclear, and they haven't 208 209 been approved in China yet. Clinical trials are still underway to test these drugs. Additionally, PAMORAs are often associated with AEs such as abdominal pain and 210 flatulence²¹. As a result, it is still necessary to explore new treatment approaches for OIC. 211 212 In traditional Chinese medicine, acupuncture has been used to treat gastrointestinal 213 disease, including constipation, for thousands of years. According to two systematic reviews, acupuncture can improve spontaneous bowel movements (SBMs) in functional 214 constipation²²⁻²³. Additionally, the results of our study indicated that electroacupuncture 215 (EA) could increase complete spontaneous bowel movements (CSBMs) and SBMs, with 216 217 a long-term effect that continues for 24 weeks after treatment ceased among patients with chronic, severe functional constipation²⁴⁻²⁵. Through stimulation of the somatic and 218 219 peripheral nervous systems, acupuncture can facilitate the gut motility and improve

- 220 gastrointestinal function²⁶. The effectiveness of acupuncture for OIC is currently lacking
- 221 evidence. The purpose of this study is to compare the efficacy and safety of EA with

sham acupuncture (SA) in the treatment of OIC in cancer patients.

223 2.3 Study Hypothesis

We hypothesize that EA is better than SA in treating OIC in adult patients with cancer pain.

226 **2.4 Methodology**

227 **2.4.1 Trial Design**

- 228 This is a multicenter, prospective, sham-controlled, parallel-group, subject- and
- assessor-blinded, randomized trial at 7 centers in China. Cancer patients must meet the
- 230 Rome IV^{10} diagnostic criteria for OIC.

231 **2.4.1.1 Randomization**

Web-based central randomization will be performed by the Linkermed Pharm Technology Co. Ltd (Beijing, China). Participants will be randomly allocated, in a 1:1 ratio, to either the EA or the SA group using permuted block-randomization. Acupuncturists in each center will be responsible for getting random numbers. Via inputting the screening information of the participant in the central randomization system through the web, they will get the random number and group allocation.

238 **2.4.1.2 Blinding**

In this study, participants, outcome evaluators, and data analysts will be blinded to the group assignments. The acupuncturists who perform the treatment will not be blinded due to the nature of the acupuncture treatment. Participant blinding will be achieved via a minimal needling at non-acupoints. Bilateral sham points will be attached with the same EA apparatus using a continuous wave of 10Hz and a current intensity of 0.1–0.2mA for 30 minutes after a brief activation period of 30 seconds.

For blinding assessment, all participants will be requested to answer the following question: "Is EA the acupuncture modality that you have received?"within five minutes after any treatment at week 8.

248 **2.4.1.3 Sample Size**

On the basis of unpublished data, a 14% response rate was assumed for the sham acupuncture group in this study. We estimated that a sample size of 100 participants would provide 90% power to detect a between-group difference of 31.4% at the two-sided significance level of 0.05 and 15% loss to follow-up.

253 **2.4.2 Subjects**

Participants with cancer will be publicly recruited from inpatient and outpatient
departments through posters and networks from 6 centers in China.

256 **2.4.2.1 Inclusion Criteria**

(1) Cancer patients must meet the Rome IV^{10} diagnostic criteria for OIC. Participants 257 have at least 2 of the following new or worsening symptoms of constipation following 258 259 initiation, alteration, or increase in opioid treatment: fewer than three SBMs per week, straining (>25% of defecations), sensation of incomplete evacuation (>25% of 260 defecations), lumpy or hard stools (>25% of defecations), and/or sensation of anorectal 261 262 obstruction/blockage (>25% of defecations). For patients with a history of chronic functional constipation, he/she must have worsening symptoms of constipation when the 263 264 opioid therapy is initiated, changed, or the dose is increased;(2)Patients recruited in this trial must have a history of OIC symptoms for at least 1 week; (3) Patients must be ≥ 18 265 years of age and ≤ 85 years of age; (4) Patient's cancer condition must be stable with a 266 life expectancy that is more than six months; (5)Patients must have an Eastern 267 Cooperative Oncology Group (ECOG)²⁷ performance status of 0-3; (6) Patients must have 268 been receiving a stably maintained opioid regimen, consisting of a total daily dose of 30 269 270 mg to 1000 mg oral morphine equivalents for at least 2 weeks prior to screening for 271 cancer pain. Furthermore, it must be anticipated that the opioid will be maintained for at least 10 weeks;(7)The SBM frequency of the patients must be ≤ 2 times a week when 272 273 laxatives are not being taken; (8) Patients must be capable of oral intake of drugs, food and beverages; (9)Provision of written informed consent before inclusion. 274

275 2.4.2.2 Exclusive Criteria

276 Participants will be excluded from this trial if they have any of the following conditions:

277 (1) Patients diagnosed with clinically significant abnormal defecation due to functional

disorders or structural abnormalities of the gastrointestinal tract and other tissues related 278 to gastrointestinal tract (not including OIC): inflammatory bowel disease, irritable bowel 279 280 syndrome, rectal prolapse, gastrointestinal obstruction, peritoneal metastasis, or peritoneal tumor at the time of enrollment; (2)Patients with a history of gastrointestinal 281 tract operation, abdominal operation, or abdominal adhesion within one month prior to 282 283 screening; history of intestinal obstruction within three months prior to screening; (3)Diagnosis of active diverticular disease; or severe hemorrhoid; or anal fissure; or 284 artificial rectum or anus; 285

(4) Patients with an intraperitoneal catheter or those that use a feeding tube to maintain 286 vital signs; (5)Diagnosis of pelvic disorder, which are considered to have obvious effects 287 on the intestinal transport of feces (such as uterine prolapse >degree 2, uterine fibroids 288 289 [located in the posterior of the uterus with a diameter \geq 5 cm] affecting bowel movement); (6)Patients that are being treated with a new cancer chemotherapy, which had never been 290 administered in the past, within 14 days of the screening or are scheduled to receive such 291 292 therapy during the study; (7)Patients that received radiotherapy within 28 days of the 293 screening or are scheduled to receive such therapy during the study; (8)Patients that underwent a surgery or intervention that is considered to have an obvious effect on the 294 295 gastrointestinal functions within 28 days of the screening or are scheduled to receive surgery or intervention which is considered to have obvious effects on the gastrointestinal 296 297 functions during the study, or scheduled to receive surgery or intervention which will be 298 anticipated to prevent the patients from completing the trial; (9)Patients with uncontrolled 299 hyperthyroidism, severe hypertension, heart disease, systematic infection or blood coagulation disorders (hypercoagulation status or hemorrhagic tendency); (10)Patients 300 301 that consumed >4 additional opioid doses per day, for breakthrough pain, for more than 3 days during the baseline period, or if their maintenance opioid dosing regimen was 302 303 modified during this period; (11)Patients with severe cancerous pain (e.g., typical average daily pain intensity rating of 7 to 10 on a numerical rating scales (NRS; 0 [no pain] to 10 304 305 [the worst pain possible]) after the utility of routine dose and frequency of opioids) 306 refractory to opioid therapy;(12) Patients with a history of opioid discontinuation due to severe adverse events or patients that are suspected to discontinue opioid use due to the 307 potential risk of adverse events; (13)Patients that received an opioid receptor antagonist 308

309 or agonist within one month of the screening, or those who are scheduled to receive such

- therapy during the study; (14) Patients with a history of nerve neurolysis;(15) Patients
- 311 with severe cognitive impairment, aphasia, or psychiatric disorders; abdominal aortic
- aneurysm; hepatomegaly(liver span > 14cm at the mid-clavicular line by ultrasound
- 313 examination); or splenomegaly (spleen length [cranial to caudal] > 13cm by ultrasound
- examination);(16) Patients that have received acupuncture within three months of the
- screening; (17)Other patients who are considered ineligible for the study by the
- 316 investigator on the basis of concomitant therapy and medical findings.

317 2.4.2.3 Subject Withdrawals

There will be at least one oncologist or gastroenterologist in each center. They will assess the severe adverse events (SAEs) and then determine whether the participant to continue or terminate the trial. Subjects may leave the study at their own discretion, or the investigator may determine whether it is in the best interest of subjects to withdraw from the trial due to worsening of symptoms, or the occurrence of a serious adverse event.

323 2.4.2.4 Subject Recruitment, Screen and Grouping Assignment

324 Participants with cancer will be publicly recruited from inpatient and outpatient departments through posters and networks. Research assistants of each site will 325 326 preliminarily screen the participants by recording their disease condition, history of the disease and treatment, and the demographic data. An oncologist or gastroenterologist of 327 328 each site will take charge of the diagnosis and the differential diagnosis of the OIC. 329 Potential participants will fill out a 1-week patient diary to record bowel movements, the 330 stool consistency, degree of difficulty in defecation, the rescue medicine drugs and duration of usage, and the intensity of cancerous pain, etc. Eligible participants then will 331 332 be randomized to EA or SA group. Acupuncturists are in charge of the participants' group assignment, and the EA or SA treatments. They are also responsible for the assessment of 333 safety during treatment. During the trial, the professional evaluators of each site will 334 instruct the participants how to fill in patients' self- assessment related to the trial and 335 336 their patient diaries and the evaluators will record the data on the case report form (CRF) 337 through the whole trial period. The subject flow was shown in Figure 1.

- 338
- 339

Figure 1. Subject flow



2.4.3 Trial flow chart

346

Figure 2.Trial flow chart

	Study Period					
	Baseline	Allocation	Treatment	Follow-up		
Enrollment	Weeks -1	Week 0	Weeks 1 to 8	Weeks 13 to 16		
Eligibility criteria	×					
Demography characteristics	×					
Disease history of cancer	×					
Disease history of OIC and constipation	×					
Eligibility screen	×					
Informed consent	×					
Allocation		×				
Interventions						
Electroacupuncture			×			
Sham electroacupuncture			×			
Assessments						
SBMs	×		×	×		
CSBMs	×		×	×		

Mean Bristol Stool Form Scale score for stool consistency of SBM	×	×	×
Mean score for straining of SBM	×	×	×
PAC-SYM total score and subscale scores	×	×	×
PAC-QOL total score and subscale scores	×	×	×
Patients' global assessment of treatment efficacy		×	×
Rescue medicine usage	×	×	× (weeks 9-16)
Opioid usage	×	×	× (weeks 9-16)
Patients' expectation of the acupuncture efficacy	×		
Blinding assessment		×	
Cancer pain		×	×
Adverse events	×	×	× (weeks 9-16)
Safety assessment	×	×	× (weeks 9-16)

347 Abbreviations: OIC, Opioid-induced constipation; SBMs, spontaneous bowel movements; CSBMs, complete spontaneous bowel

348 movements; PAC-SYM, Patient Assessment of Constipation-Symptom questionnaires; PAC-QOL, Patient Assessment of

349 Constipation-Quality of Life questionnaires.



Figure 3. The schedule of enrollment, interventions, and assessments

351 2.4.4 Outcomes Measurement

352 2.4.4.1 Primary Outcome

The primary outcome will be the proportion of overall responders, defined as a patient that has ≥ 3 SBMs/wk and \geq increase of 1 SBM from baseline simultaneously for at least 6 out of 8 weeks of the treatment period. SBM refers to a bowel movement that occurred without medication or assistance within the previous 24 hours. When a bowel movement occurs within 24 hours of the use of an optional assisted method (rescue medication or other bowel-treatment regimens) for defecation, it is not regarded as an SBM.

Every participant will be required to keep a diary 13 weeks: baseline (run-out 359 period before randomization), 8 weeks of treatment, and 4 weeks of follow-up. Diary 360 entries include the frequency of bowel movements, the consistency of the stool, the 361 difficulty in defecating, the rescue medicine drugs applied and their duration, and the 362 363 intensity of the cancer pain. During the treatment period, the diary will be collected weekly, and during the follow-up period, it will be collected at the end of week 16. The 364 outcome evaluators will examine the diary content and determine the SBM and frequency 365 366 accordingly.

367 2.4.4.2 Secondary Outcomes

(1) Changes in the mean weekly SBMs from the baseline during weeks 1-8 and weeks
13-16. The mean weekly SBMs equals the total frequency of SBMs divided by the
numbers of week(s) recorded. Assessment time frame: at baseline, over weeks 1-8 and
13-16.

372 (2) The proportion of patients with \geq 3 mean weekly SBMs during weeks 1-8 and weeks

13-16. Assessment time frame: at baseline, over weeks 1-8 and 13-16.

374 (3) The proportion of patients with an increase of ≥ 1 mean weekly SBM from the

baseline during weeks 1-8 and weeks 13-16. Assessment time frame: at baseline, over
weeks 1-8 and 13-16.

377 (4) A change in the mean weekly CSBMs from the baseline during weeks 1-8 and weeks

13-16. A CSBM is defined as an SBM with the feeling of complete evacuation. The mean

379 weekly CSBMs equals the total frequency of CSBMs divided by number of week(s)

- 380 recorded. Assessment time frame: at baseline, over weeks 1-8 and 13-16.
- 381 (5) The proportion of patients with \geq 3 mean weekly CSBMs during weeks 1-8 and

weeks 13-16. Assessment time frame: at baseline, over weeks 1-8 and 13-16.

- 383 (6) The proportion of patients with an increase of ≥ 1 mean weekly CSBM from the
- baseline during weeks 1-8 and weeks 13-16. Assessment time frame: at baseline, over
 weeks 1-8 and 13-16.
- 386 (7) A change in the mean Bristol Stool Form Scale score for stool consistency of SBMs
- 387 from the baseline during weeks 1-8 and weeks 13-16. For stool consistency, each patient
- 388 will be asked to record their stool consistency according to the Bristol Stool Form Scale²⁸
- 389 on the following seven points scale (scored from 1 to 7 for stool types 1 to 7,
- respectively). Assessment time frame: at baseline, over weeks 1-8 and 13-16.



- Type 1: Separate hard lumps, like nuts (hard to pass)
 Type 2: Sausage-shaped, but lumpy
 Type 3: Like a sausage but with cracks on its surface
 Type 4: Like a sausage or snake, smooth and soft
 Type 5: Soft blobs with clear cut edges (passed easily)
 Type 6: Fluffy pieces with ragged edges, a mushy stool
 Type 7: Watery, no solid pieces. Entirely liquid
- (8)A change in the mean score for the straining of SBMs from the baseline during
 weeks 1-8 and weeks 13-16. For assessment of the straining of SBMs, each patient will
 be asked to rate his/her score of straining, using the following five-point scale²⁹: not at all
 difficult (0), a little bit difficult (1), moderately difficult (2), quite a bit difficult (3),
 extremely difficult (4). Assessment time frame: baseline, over weeks 1-8 and 13-16.

(9)A change in the total and subscale score of the Patient Assessment of 396 Constipation-Symptom (PAC-SYM) questionnaire from the baseline at weeks 8 and 16. 397 398 The PAC-SYM is a questionnaire used to evaluate the severity of chronic constipation in the past 2 weeks. It consists of 12 items, which are subdivided into abdominal (4 items), 399 rectal (3 items), and stool (5 items) scales.34 36 The score of each item ranges from 0 to 400 4. with 0 = symptom absent, 1 = mild, 2 = moderate, 3 = severe and 4 = very severe. 401 Lower scores indicate a lower symptom burden. Each subscale score will be calculated as 402 403 the mean of the completed items for that subscale. The total score will be calculated as the mean of all completed items. In this trial, the Chinese version of PAC-SYM, which 404 has been validated to have a satisfactory psychometric property³⁰, will be used. 405 Assessment time frame: at baseline, at weeks 8 and 16. 406

407 (10) A change in the total and subscale scores of the Patient Assessment of Constipation-Quality of Life (PAC-QOL) questionnaires from the baseline at weeks 8 and 408 16. The PAC-QOL is a 28-item self-reported questionnaire to assess the burden of 409 constipation on patients' everyday functioning and well-being in the 2 weeks (14 days) 410 prior to assessment³¹. This questionnaire is divided into four subscales: physical 411 discomfort (items 1-4), psychosocial discomfort (items 5-12), worries/concerns (items 412 413 13-23), and satisfaction (items 24 to 28). Each of the item scores ranges from 0 (not at all) to 4 (extreme), with lower scores indicating a better quality of life. For each visit, 414 415 individual subscale scores will be calculated as the mean of the completed items for that subscale. The total score will be calculated as the mean of all of the completed items. We 416 will use the Chinese version of this $test^{32}$ in our trial, which has been demonstrated to be 417 a reliable and valid tool. Assessment time frame: at baseline, at weeks 8 and 16. 418

(11) Patients' global assessment of treatment efficacy. Each patient will be asked to rate
his/her efficacy of treatment using the following 7-point self-reporting scale: markedly
worse (1), moderately worse (2), slightly worse (3), no change (4), slightly improved (5),
moderately improved (6), markedly improved (7). Scales with seven response categories
are easy to use and have shown a high reliability and validity³³. This questionnaire will be
completed at week 8 and week 16. Assessment time frame: baseline, at weeks 8 and 16.

- 424 Completed at week 8 and week 10. Assessment time frame. Dasenne, at weeks 8 and 10.
- (12) The proportion of patients using rescue medicine and the mean frequency of rescue
 medicine use per week during weeks 1-8 and weeks 9-16. Assessment time frame: at

427 baseline, over weeks 1-8 and 13-16.

429

428 Other Pre-specified Outcome Measures

mean increase or decrease in the dose of opioid from baseline during weeks 1-8 and
weeks 9-16. Assessment time frame: at baseline, at weeks 8 and 16.

(13) The proportion of patients discontinuing the opioid, and those with a \geq 30% weekly

(14) The proportion of patients with a change from baseline in anti-tumor therapy that
could impair the defecation during weeks 1-8 and weeks 9-16. Assessment time frame: at
baseline, at weeks 8 and 16.

(15)Patients' belief in the efficacy of acupuncture. Participants will be asked to answer
the following questions at baseline: "Do you think acupuncture will be effective in
treating the disease in general?" and "Do you think acupuncture will be effective in
improving the OIC?" For each question, patients will choose one of the following
answers: "unclear/whatever", "Yes", or "No". Assessment time frame: at baseline.

(16) Blinding assessment. The blinding is regarded as successful when a patient guesses 440 he/she has received a conventional EA. Before treatment, we told patients that they had a 441 50% chance of receiving conventional electroacupuncture (EA) with a deeper insertion 442 versus minimal electroacupuncture (SA) a superficial penetration. Conventional 443 444 electroacupuncture and minimal electroacupuncture have a possible similar efficacy. Both treatments used a relatively small electric intensity, and they may or may not feel the 445 446 stimulation during treatment. Patients were treated separately to avoid communication. To assess the success of blinding, within 5 minutes after treatment at week 8, patients 447 were asked to guess whether they received conventional EA. Assessment time frame: at 448 449 week 8.

450 **3. Safety Assessment**

All adverse events (AEs) will be recorded throughout the whole trial in Adverse Event
Form (AEF) by patients themselves and outcome assessors. In our trial, the serious AEs
will be defined as events that cause death, exacerbation of the preexisting condition,
interruption of treatment, prolongation of existing hospitalization, permanent disability or

455 damage, or required medical intervention to prevent one of the above outcomes. AEs will be categorized as treatment related or non-treatment related based on its potential 456 457 association with acupuncture needling procedure by acupuncturists and related specialists within 24 hours. The treatment related AEs defined as follows: dizziness, fainting, 458 localized hematoma, localized minor infection, or some discomforts after acupuncture. 459 Safety assessments also include an 11-point NRS (0 indicates no pain, and 10 indicates 460 the severest pain) to evaluate the intensity of cancer pain. The mean and largest intensity 461 of cancer pain during the preceding week will be evaluated at baseline, as well as weeks 462 2, 4, 6, 8 and 16. 463

464 **4. Interventions**

The intervention scheme of this trial is based on our previous trials regarding acupuncture for functional constipation^{24, 25}. Acupuncturists who had an acupuncture license and at least 2 years of clinical experience in acupuncture will perform the treatment. We will use disposable acupuncture needles (of the following sizes: 0.30×40 , 0.30×50 and $0.30 \times$ 75 mm) and SDZ-V EA apparatus (all Hwato Brand, Suzhou Medical Appliance Factory, Suzhou, China) in this trial. The duration of the trial for each participant will be 17 weeks: 1- week baseline assessment (run-out period), 8- week treatment and 8- week follow- up.

472 **4.1 EA**

Bilateral Tianshu (ST25), Fujie (SP14), Shangjuxu (ST37) will be used in the EA group. 473 474 The location of the acupoints will be based on Nomenclature and location of acupuncture points³⁴ drafted in 2006 by the National Standard of the People's Republic of China 475 (GB/T 12346-2006). The local skin will be routinely sterilized while the patient is in a 476 477 supine position. For ST25 and SP14, 0.30×50 mm or 0.30×75 mm needles will be gently vertically inserted to the muscle layer of the abdominal wall, where patients will feel 478 479 sharp pain and acupuncturists will feel resistance from the needle tip. For ST37, 0.30×40 480 mm needles will be vertically inserted approximately 15 mm deep, followed by 481 three-time manipulation of even lifting and twisting method to elicit the sensation of deqi. Paired alligator clips of the EA apparatus will then be attached to the needle holders of 482

the bilateral ST25, SP14, and ST37. The stimulation will be retained for 30 minutes, with a continuous wave of 10 Hz and current intensity of 0.5 to 4 mA. All needles will be removed after 30 minutes and pressure will be applied using a dry sterilized cotton ball to avoid bleeding. Patients will be followed up for another 8 weeks after the treatment stopped.

488 **4.2 SA**

489 The patients in the SA group will receive minimal needling at non-acupoints as bilateral sham ST25, SP14, and ST37. The sham ST25 and SP14 are located 2 cm horizontally 490 491 outward of the points stimulaed in the EA group. The sham ST37 point is located outward 492 of ST37 in the middle of the stomach and gallbladder channel. After sterilization of the 493 skin, 0.30×40 mm needles will be directly inserted about 2-3 mm until they can stand up 494 when attached by the alligator clips. No manipulation will be used and no deqi sensation 495 will be elicited at any of the sham points. The bilateral sham ST25, SP14, and ST37 496 points will be attached by the same EA apparatus with a continuous wave of 10 Hz and 497 current intensity of 0.1 to 0.2 mA for 30 minutes with only the initial 30 seconds on.

498

Patients in both groups will receive 24 treatment sessions over an 8-week period (3 sessions each week, ideally every other day). Each session will last for 30 minutes.
Patients will be treated separately to prevent between-patient communication. Patients will be followed up for another 8 weeks after the treatment stopped.

503 4.3 Rescue medication

504 During the trial, other medication or intervention for OIC will be discouraged. However, 505 if a patient has no bowel movement for 72 consecutive hours and cannot tolerate it, only 506 bisacodyl (5 to 10 mg; up to 20 mg per day) or a 110ml glycerol enema will be permitted 507 as a rescue medication. Details of drug use (time and frequency) will be recorded.

508 5. Informed consent

509 Informed Consent: Study Introduction

510 Dear participants:

511 Opioid analgesics, such as morphine and oxycodone, are recommended as the 512 cornerstone for the management of moderate to severe cancer pain by WHO Cancer Pain 513 Relief Guidelines. Opioid-induced constipation (OIC) is the most prevalent serious 514 adverse events (AEs). It is reported in 94% of cancer patients who take opioids for pain. 515 OIC is defined as a change in baseline bowel habits or defecatory patterns following the 516 initial administration or modification of opioid therapy.

517 Unlike many other opioid-related AEs, the symptoms of OIC tend to be persistent and 518 difficult to tolerate, which can adversely reduce patients' quality of life. The mechanism of OIC involves multiple contributing factors: exogenous opioids can activate µ-receptors 519 520 throughout the gastrointestinal tract and lead to a change in gut motility, a decrease in gut 521 secretion and an increase in sphincter tone, which will result in OIC. The management of 522 OIC is multifaceted, involving a combination of pharmacological and non-pharmacological interventions, such as laxatives and increased fluid and fiber intake. 523 524 However, the efficacy of these interventions is limited and these approaches do not 525 address all of the underlying pathophysiological mechanisms of OIC. Recently, peripherally acting μ -opioid receptor antagonists (PAMORAs), such as naloxegol and 526 methylnaltrexone, have been shown to be effective in treating OIC patients who response 527 528 poorly to simple laxatives. However, these drugs are still under test in clinical trials with unclear long-term efficacy and safety; they have not been approved for use in China. In 529 addition, the use of PAMORAs is often accompanied by AEs of abdominal pain and 530 531 flatulence. At present, traditional Chinese medicine, glycerin enema and other methods 532 are also can be used to treat OIC.

If you have been experiencing cancer-related pain and were haunted by the symptom of OIC. We invite you to participate in the study. This study was supported and funded by the 2019 National Administration of Traditional Chinese Medicine "Project of building evidence-based practice capacity for TCM--Project BEBPC-TCM" (NO. 2019XZZX-ZJ). The objective of this study is to assess the efficacy and safety of EA compared to sham

- acupuncture (SA) in the treatment of OIC in patients with cancer. Participating in thisstudy can relieve symptoms of OIC while also contributing to the development of
- 540 medicine, especially for acupuncture and moxibustion of Traditional Chinese medicine.
- 541 Patients with the following conditions should not participate in this study: If you cannot
- 542 participate in the study, we will provide free scale testing and related consultation.
- 543

(1) Patients diagnosed with clinically significant abnormal defecation due tostructural
abnormalities of the gastrointestinal tract and other tissues related to gastrointestinal tract
(not including OIC): inflammatory bowel disease, rectal prolapse, gastrointestinal
obstruction, peritoneal metastasis, or peritoneal tumor at the time of enrollment;

(2) Patients with a history of gastrointestinal tract operation, abdominal operation, or
abdominal adhesion within one month prior to screening; history of intestinal obstruction
within three months prior to screening;

(3) Diagnosis of active diverticular disease; or severe hemorrhoid; or anal fissure; or
artificial rectum or anus;

(4) Patients with an intraperitoneal catheter or those that use a feeding tube to maintainvital signs;

555 (5) Diagnosis of pelvic disorder, which are considered to have obvious effects on the 556 intestinal transport of feces (such as uterine prolapse \geq degree 2, uterine fibroids 557 [located in the posterior of the uterus with a diameter \geq 5 cm] affecting bowel 558 movement);

(6) Patients that are being treated with a new cancer chemotherapy, which had never
been administered in the past, within 14 days of the screening or are scheduled to receive
such therapy during the study;

562 (7) Patients that received radiotherapy within 28 days of the screening or are scheduled563 to receive such therapy during the study;

(8) Patients that underwent a surgery or intervention that is considered to have an obvious effect on the gastrointestinal functions within 28 days of the screening or are scheduled to receive surgery or intervention which is considered to have obvious effects on the gastrointestinal functions during the study, or scheduled to receive surgery or intervention which will be anticipated to prevent the patients from completing the trial;

569 (9) Patients with uncontrolled hyperthyroidism, severe hypertension, heart disease,
570 systematic infection or blood coagulation disorders (hypercoagulation status or
571 hemorrhagic tendency);

572 (10) Patients that consumed >4 additional opioid doses per day, for breakthrough pain,
573 for more than 3 days during the baseline period, or if their maintenance opioid dosing
574 regimen was modified during this period;

- 575 (11) Patients with severe cancerous pain (e.g., typical average daily pain intensity rating
 576 of 7 to 10 on a numerical rating scales (NRS; 0 [no pain] to 10 [the worst pain possible])
 577 after the utility of routine dose and frequency of opioids) refractory to opioid therapy;
- 578 (12) Patients with a history of opioid discontinuation due to severe adverse events or
 579 patients that are suspected to discontinue opioid use due to the potential risk of adverse
 580 events;

(13) Patients that received an opioid receptor antagonist within one month of the
 screening, or those who are scheduled to receive such therapy during the study;

583 (14) Patients with a history of nerve neurolysis;

(15) Patients with severe cognitive impairment, aphasia, or psychiatric disorders;
abdominal aortic aneurysm; hepatomegaly(liver span > 14cm at the mid-clavicular line
by ultrasound examination); or splenomegaly(spleen length [cranial to caudal] > 13cm by
ultrasound examination);

588 (16) Patients that have received acupuncture within three months of the screening;

589 (17) Other patients who are considered ineligible for the study by the investigator on the590 basis of concomitant therapy and medical findings.

591 We plan to enroll a total of 100 participants with 50 in each group in this trial. If the 592 patients can participate in this study, doctors will randomly assign them to conventional 593 electroacupuncture(EA) group or minimal electroacupuncture group. Each patient will 594 have a 50% chance to be in the EA group or minimal electroacupuncture group. Patients in both groups will receive 24 treatment sessions over an 8-week period (3 595 596 sessions each week, ideally every other day). Patients will be followed up for another 8 597 weeks after the treatment stopped. During the study period, subjects are required to cooperate with doctors to complete relevant scales and carry out necessary auxiliary 598 599 examinations, as well as to adherence to the schedule for treatment, examination, and

follow-up visit. Additionally, you are also responsible for reporting any changes in your 600 601 physical and mental status to your doctor during the study process regardless of whether 602 you think these changes are related to the study or not. During the trial, other medication or intervention for OIC will be discouraged. However, if a patient has no 603 bowel movement for 72 consecutive hours, only bisacodyl (5 to 10 mg; up to 20 mg per 604 day) or a 110ml glycerol enema will be permitted as a rescue medication. Details of drug 605 use (time and frequency) will be recorded. The doctors will make every effort to prevent 606 607 and treat any side effects brought on by this study. During acupuncture treatment, you may feel soreness, numbress, heavy, distension sensation, etc., which are normal 608 609 reactions to acupuncture. Acupuncture treatment may have some adverse effects (e.g., dizziness, fainting, localized hematoma, localized minor infection), but it is rare and mild. 610 We promise that in case of adverse events, we will do our best to provide treatment in 611 accordance with the routine diagnosis and treatment according to professional judgment, 612 613 and will follow the condition until it stabilizes or until the event is otherwise explained. The hospital will bear all the costs. Free treatment, consultation and scale measurement 614 615 will be provided throughout the trial (including the follow-up period). You and your legal representative will be promptly notified of any information that may affect the subject's 616 617 participation in the study. Whether to participate in this study will be entirely determined by the patients themselves, and the subjects' privacy will be kept strictly confidential 618 619 within the scope of the law. Only the institutes responsible for the study, clinical research institutes, and ethics committees may have access to your medical records to verify 620 621 clinical trial procedures and data. Your name will not appear in any publications or reports related to this study. Subjects have the right to withdraw from the study at any 622 623 time during the study without any discrimination or retaliation, and without affecting any medical services. For your best interests(such as unbearable acupuncture pain or severe 624 AEs), researchers may terminate your participation at any time during the study. Personal 625 data of participants in the study are kept confidential. If you need more information, feel 626 free to talk to your doctor. Subjects are entitled to ask our physicians at any time and to 627 628 contact the ETHICS committee office if they have complaints.

629

630 Patient statement

I have been informed of the research purpose, content and method of this research, and I have fully understood the nature, significance, and possible risks and benefits of this research. I have the right to participate in this study voluntarily or not.My personal information will be kept confidential.I grant access to the study data to the DRUG regulatory agency or the ethics committee.

I have fully understood the above and made the decision on my own after full consideration: I volunteered to be a subject in the study "Effects of electroacupuncture on opioid-induced constipation in patients with cancer: a multicenter randomized controlled trial". I am willing to accept research requests and cooperate with researchers.I am willing to actively cooperate with relevant examinations and fulfill the rights and obligations of subjects to ensure the final completion of this study.

642	Signature of patient	Year month day

643 Telephone:

644

645 Researcher declaration:

I have carefully explained to the subjects the situation of this study and the benefits and risks of participating in this study. His signature is valid. Medical problems, language or education do not preclude an understanding of the above.

649 Signature of researcher Year month day

650 Telephone:

651 :

652 6. Quality Control

All staff members will undergo training prior to the trial. Monitors will check the case report forms and the acupuncture operation regularly. To improve adherence to intervention protocols, the majority of patients will come from the inpatient setting. The outcomes will be evaluated by independent assessors who are unaware of the group allocation. The data will be input by a clinical research coordinator according to the contents of CRF using the Electronic Data Capture System (EDC), which will be monitored by Clinical Research Associate. Detailed documentation of drop-outs and withdrawals, including the reasons, will be obtained throughout the trial. All of the investigators will always maintain a strict privacy policy to protect confidentiality before, during and after the trial.

663

664 7. Data Management

665 7.1 The Raw Data Management and Archiving

We use Electronic Data Capture System (EDC) system to perform data entry. The research assistants will fill out all the electrical CRF through RDC system. Researchers will inspect the eCRF, and signed electrically for the eCRF going into effect. The eCRF and the trace of eCRF revising will be left in the Oracle database.

670 7.2 Data Entry and Storage

671 7.2.1 Database Building and Testing, Data Entry Interface

The eCRF will be noted through CDISC SDTM standard, and the data entry interface will be generated through the Oracle Clinical software. The data entry interface should be in accordance with the paper-version CRF as far as possible. The inputted data will be stored in the Oracle database.

After preliminarily setting up the database, the entry clerks will input some analog data according to the CRF to test the database. The testing contains: (1) the agreement of the data entry interface and the paper-version CRF; (2) the agreement of the exported data from the database and the analog data; (3) the agreement of the structure of the exported database and the paper-version CRF. After the testing, data administrators should revise the database and make a testing report. Then they electrically signed on the approval page of the database to indicate that the testing is completed. The electrical files of the analog 683 CRF, Noted CRF, screenshot of the data entry interface, database testing report, and the
684 approval page of the database should be saved. If the database updates during the trial,
685 the electrical files mentioned above are also need to be updated.

686 **7.2.2 Data Entry and Inspection**

687 The research assistants take charge of the data entry for our trial. Before the entry, all the 688 research assistants will accept the related training according to the data entry handbook. 689 Researchers will inspect the database, and then sign electrically to let the data go in to 690 effect.

691 **7.3 Data Verification and Problems Solving**

Researchers will verify the data through Data Verification Plan (DVP) approved by the data administrator and the statisticians. Data queries will be inputted to a data query database, and form the DCF. After being inspected, the DCF will then be handed back to the original site, and the researchers of the site should answer the queries. Any revision of the database will be recorded through the RDC software.

697 **7.4 Medical Coding**

A data administrator who has the medicine background will take charge of the medical coding. The contents of the coding are the clinical history, adverse events, and combined medication. The clinical history and adverse events will be coded through MedDRA dictionary (Version 13.0), and the combined medication will be coded via WHO DD dictionary (Version 2007.03). The lead researchers will verify the coded e-files.

703 **7.5 Data Report**

Data report contains the aspects as followed: (1) members of the project; (2) disagreement from the primary data management plan; (3) actual finish time of every project; (4) problems and the solution during the data management (if have any); (5) reconstruction of the database (if have any); (6) distribution of the participants; (7) participants who disobey the trial protocol; (7) classifying plan of the statistical analysis population. 710 Data report will be performed monthly since the first entry of the eCRF.

711 7.6 Data Auditing

- When the data checking is finished, a data auditing and blinding review meeting will be
 hold. On the meeting, the data administrators, statisticians, researchers, clinical inspectors,
 and other related members would have a discussion on the following items according to
 the data management report and the data lists:
 Distribution of the participants;
- Protocol disobeying or not;
- Possible outlier;
- Baseline data;
- Outcomes;
- Statistical analysis plan.

722 7.7 Database Locking

The database will be locked if it fulfills all the aspects as followed: All the queries have been solved, and the database has been updated; No query has been found through the data inspection; The medical coding has been completed; The plan of the participants ' classification has been approved; The final draft of the SAP has been made, and approved by the project leader.

The statisticians and the data administrators will signed the data locking form, and then the database will be locked. The locked database will be sent to the statisticians for further statistical analysis through the data format of SAS.

731 8. Statistical Consideration

- 732 The following is an overview of the statistical considerations. Details of the pre-specified
- statistical analyses can be found in the Statistical Analysis Plan (SAP).

735 8.1 Statistical Analysis

736 The primary study hypothesis is that EA is more effective than SA in the treatment of

737 OIC in patients with cancer. The primary outcome is the proportion of overall responders,

738 defined as a patient that has \geq 3 SBMs/wk and \geq increase of 1 SBM from baseline

rage simultaneously for at least 6 out of 8 weeks of the treatment period. The primary analysis

vill be intention-to-treat, which is defined as all randomized participants.

The following secondary outcomes will be analyzed using the t test, repeated measures

analysis, Wilcoxon rank-sum test, Chi-square test or Fisher's exact test, as appropriate:

A two-side test with p < 0.05 will be considered significant for all analyses.

744 8.2 Statistical Analysis Plan (SAP)

Prior to database lock and before code breaking, a final version of the SAP shall be issued and approved by the study statistician, and the principal investigator. The SAP will define all "pre-specified, planned analyses" and provide the general specifications for the analysis of the data to be collected and presented in the Clinical Study Report.

749 9 Ethical principle

For every study site, only when the trial protocol is approved by the IRB, the enrollmentof participant will begin, but all should be after May 1, 2019.

752 **10 Funding**

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Medical Sciences.

757

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12 Major update of the published protocol

847 Important Changes Made to Study Design After Trial Commencement

No.	Item	Original version	Final version	Reason(s) for making
		5		change(s)
1	Exclusion criteria	(1)Patients diagnosed with clinically significant abnormal defecation due to functional disorders or structural abnormalities of the gastrointestinal tract and other tissues related to gastrointestinal tract (not including OIC)	Patients diagnosed with clinically significant abnormal defecation due to structural abnormalities of the gastrointestinal tract and other tissues related to gastrointestinal tract (not including OIC)	To reconsider the appropriate exclusion for more enrollment
2	Exclusion criteria	(13)Patients that received an opioid receptor antagonist or agonist within one month of the screening, or those who are scheduled to receive such therapy during the study	Patients that received an opioid receptor antagonist one month before the screening, or those who are scheduled to receive such therapy during the study	To reconsider the appropriate exclusion for more enrollment
3	Primary outcome	The primary outcome will be the proportion of responders,	The primary outcome will be the proportion of overall responders,	To make this point more clearly

849	Effects	of	E	lectroacup	unctu	re on	Oj	pioid-induced
850	Constip	ation	in	Patients	with	Cancer:	A	Randomized
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897 **1. Introduction**

898 About 70-80% of patients experience moderate to severe pain. As the cornerstone of 899 treatment for moderate to severe cancer pain, opiate analgesics, such as morphine and oxycodone, are recommended by WHO Cancer Pain Relief Guidelines. The use of 900 901 systemic opioids is recommended by some studies for cancer patients experiencing 902 moderate to severe pain, regardless of the underlying causes. Opioids stimulate receptors 903 both in the central nervous system (CNS) and the peripheral nervous system, reducing pain and improving quality of life for patients. The drug can, however, be associated with 904 serious adverse events (AEs) with a rate ranging from 1.8% to 13.6%, the most common 905 906 of which is opioid-induced constipation (OIC). OIC represents a change in baseline bowel habits or defecation patterns that occurs following the administration or 907 908 modification of opioid therapy. Approximately 41% of non-cancer patients and 94% of 909 cancer patients who use opioids for pain have this condition. Symptoms of OIC are 910 usually persistent and difficult to tolerate, which adversely affects patients' quality of life 911 and results in reductions in dose or discontinuation of opioid analgesics. OIC is the result 912 of multiple factors contributing to it: Opioids may activate µ-receptors throughout the gastrointestinal tract and cause changes to gut motility, decreases in gut secretion, and an 913 914 increase in sphincter tone, which can lead to constipation. Various pharmacological and nonpharmacological interventions are used to manage OIC, such as laxatives and 915 916 increased fluid intake. However, these interventions are limited in effectiveness, and they 917 do not address the pathophysiological mechanisms of OIC. However, longer-term 918 efficacy and safety of PAMORAs are unclear, and they haven't been approved in China yet. Clinical trials are still underway to test these drugs. Additionally, PAMORAs are 919 920 often associated with AEs such as abdominal pain and flatulence. As a result, it is still 921 necessary to explore new treatment approaches for OIC.

Acupuncture has been used to treat gastrointestinal disease, including constipation, for thousands of years. According to two systematic reviews, acupuncture can improve spontaneous bowel movements (SBMs) in functional constipation. Additionally, the results of our study indicated that electroacupuncture (EA) could increase complete spontaneous bowel movements (CSBMs) and SBMs, with a long-term effect that continues for 24 weeks after treatment ceased among patients with chronic, severe

928 functional constipation. Through stimulation of the somatic and peripheral nervous

929 systems, acupuncture can facilitate the gut motility and improve gastrointestinal function.

930 The effectiveness of acupuncture for OIC is currently lacking evidence.

931

932 **2. Study objective**

The objective of this study is to assess the efficacy of EA for OIC in adult patientswith cancer pain.

935 **3. Design**

936 This is a multicenter, sham-controlled, assessor-blinded, randomized trial.

937 4. Statistical Considerations

938 **4.1 Study Hypothesis**

939 The primary study hypothesis is that EA is more effective than SA in patients with 940 cancer pain.

941 4.2 Statistical Hypothesis

The null hypothesis is that the proportion of overall responders will be the same forEA and SA, and the alternative hypothesis is that the change would differ.

944 **4.3 Study Populations**

All patients with randomization will be included in the analysis set regardless of whether they receive any treatment. According to the intention-to-treat principle, all analysis will be based on the randomization set.

948 4.4 Statistical Analyses

949 **4.4.1 The General Principle**

Summary tables (descriptive statistics and/or frequency tables) will be provided for all variables at different endpoints. For continuous variables, means and standard deviations will be presented, unless the variable has a skewed distribution, in which case medians, 25th and 75th percentiles will be presented. For categorical variables, the number and percentage of participants within each category will be presented. For each variable (continuous or categorical), the number of missing values will be reported.

956

957 Statistical Comparisons Between Groups

Continuous variables will be compared using a two-sample *t*-test or Wilcoxon rank-sum test if data show serious deviations from a normal distribution. Categorical data or ordinal data will be compared using a Wilcoxon rank-sum test, chi-square test or Fisher's exact test, as appropriate. All tests will be two-sided.

For the analysis of the primary and secondary outcomes, estimated treatment differences and associated 95% two-sided confidence intervals will be presented.

964

965 Analysis Software

For all statistical analyses, SAS 9.4 software will be used. All hypothesis testing will be carried out at the 5% (2-sided) significance level.

968 4.4.2 Demographics and Baseline Characteristics

All data recorded at baseline will be summarized by group. Comparisons between groups will be performed using the methodology described in section 4.4.1. Summaries will be presented for the ITT Set in both groups.

972 **4.4.3 Analyses for Primary Outcome**

The primary outcome will use a generalized linear model with a binomial distribution and identity link. The subgroup analysis will be conducted by adding an interaction between the baseline daily opioid dose and treatment into the generalized linear model.

Missing data on the primary outcome will be imputed using the multiple imputationmethod under the missing at random assumption.

979 4.4.4 Analyses for Secondary Outcomes

980 Efficacy analyses for all secondary outcomes will be performed in the ITT 981 population, without imputation of missing data.

982 Continuous data will be described with the average, standard deviation, median,
983 minimum value, and maximum value, whereas categorical data will be represented by
984 percentages as appropriate.

985 4.4.5 Safety Analyses

All adverse events and serious adverse events will be listed. Adverse events include

987 the acupuncture-related adverse events and other adverse events.

990 5. The Summary of Changes of Final SAP

- 991 As compared to the original protocol published in the *Front. Med.* (Zhishun Liu,
- 992 Yang Wang, Huanfang Xu, et al. Effects of Electroacupuncture on Opioid-Induced
- 993 Constipation in Patients with Cancer: Study Protocol for a Multicenter Randomized
- 994 Controlled Trial. Front Med. 2022), the present finalized SAP had made a few
- amendments. The major updates were provided in Table 1.
- 996

997 **Table 1. MAJOR UPDATES OF THE ORIGINAL SAP**

No.	Item	Original Version	Final Version
1	Primary	The primary outcome will be	The primary outcome will use a
	outcome	evaluated using the x^2 test.	generalized linear model with a
			binomial distribution and identity
			link.
2	Safety	AE incidences for each	AE data will be provided for
	outcome	treatment group will be	descriptive purposes only.
		compared using Fisher's	
		exact test.	

1	
2	Ethical Approvals of all participating hospitals
3	
4	This trial is to be conducted in 7 hospitals. The ethical review was firstly submitted to IRB of
5	the principle organization, Guang'an men Hospital, and then to IRB of other participating
6	hospitals. This trial has gained approval from all of the IRBs.
7	As both Wangjing Hospital and Guang'an men Hospital are affiliated to China Academy of
8	Chinese Medical Sciences, Wangjing Hospital shared the same ethical approval as the Guang'an
9	men Hospital.
10	Ethical approvals are attached in the following sequence.
11	1. Guang'an men Hospital Affiliated to China Academy of Chinese Medical Sciences
12	2. The First Affiliated Hospital of Guizhou University of Traditional Chinese Medicine
13	3. Zhejiang Hospital
14	4. Jiangsu Province Hospital of Traditional Chinese Medicine
15	5. Hengyang Hospital affiliated with Hunan University of Chinese Medicine
16	6. Yantai Hospital of Traditional Chinese Medicine
17	
18	

Institutional Review Board Documentation of Guang'anmen Hospital of China Academy of

Chinese Medical Sciences (EC_AF_054)

21

Ethical Approvals of Guang' anmen Hospital of China Academy of Chinese

23

22

Medical Sciences

Trial name	Effect of acupuncture for opioid-induced constipation in patients with cancer: a					
marmarma	randomized controlled trial					
Approval No.	2018-164-KY-01	Project Sponsor	Investigator			
	Guang'an men H	ospital Affiliated to Chin	a Academy of Chinese Medical			
	Sciences, The Fir	st Affiliated Hospital of C	Guizhou University of Traditional Chinese			
Bartisinsting Contour	Medicine, Zhejia	ng Hospital, Jiangsu Prov	vince Hospital of Traditional Chinese			
Participating Centers	Medicine, Hengy	ang Hospital affiliated w	ith Hunan University of Chinese Medicine,			
	Wangjing Hospit	al affiliated to China Aca	demy of Chinese Medical Sciences, Yantai			
	Hospital of Tradi	tional Chinese Medicine				
Site PI	Zhishun Liu	Research department	Acupuncture and Moxibustion Deparment			
Review Attribute	Second review	Review methods	Quick Review			
	December 20		Guang'an men Hospital Affiliated to			
Review Date	2018	Review Place	China Academy of Chinese Medical			
	2018		Sciences			
Committee Member		Haibo Yi	in, Wei Cao			
	Study Protocol (VERSION1.0_2018093001/September 30, 2018), Case Report					
	Form(VERSION1.0_2018093001/September 30, 2018) Informed Consent					
	(VERSION1.0. 2018003001/September 30. 2018.) Participant recruitment					
	(VERSIONI.0_2018093001/September 30, 2018), Farticipant rectulinent					
Approval Files	advertisement (VERSION1.0_2018093001/September 30, 2018), Diary card in					
	screening period (VERSION1.0_2018093001/September 30, 2018), Diary card in					
	treatment period (VERSION1.0_2018093001/September 30, 2018), Diary card in					
	follow-up period (VERSION1.0_2018093001/September 30, 2018), Investigator's					
	Brochure(VERSION1.0_2018093001/September 30, 2018), Emergency					
	plan(VERSION1.0_2018093001/September 30, 2018).					
Review Comments	According to "ethical review methods for biomedical study involving human subjects"					
	issued by the Ministry of Health, "Good Clinical Practice", "Provisions for Clinical					
	Trials of Medical Device" and "Guidelines for Ethical Review Work of Drug Clinical					
	Trials" issued by State Food and Drug Administration (SFDA) of the People's					
	Republic of China, "management specifications for ethical review of TCM clinical					
	studies" issued by State Administration of Traditional Chinese Medicine, "Declaration					
	of Helsinki", and	"International ethical gu	idelines for biomedical research involving			
	human subjects"	issued by Council for Int	ernational Organizations of Medical			
	Sciences, this cli	nical research was review	red by the institutional review board (IRB) of			
	Guang'anmen Hospital of China Academy of Chinese Medical Sciences. And the					

study protocol, informed consent, and the recruitment files of this research were approved. Please conduct this clinical study following the GCP principles and the study protocol approved by the IRB. The health and rights of the subjects should be protected throughout the whole study. This approval will be invalid if the trial could not be initiated within three years, and the application should be tresubmitted. An application should be tresubmitted. An application of the study protocol, informed consent, or the recruitment files are made. A report of the severe adverse events (SAE) should be submitted within 15 working days if any SAE or any other un-anticipated AE, which will affect the risk-reward ratio of this study, occurs. If a fatal adverse event occurs, please submit a serious adverse event report as soon as it becomes known. Researchers should be submitted by the site P1 to the IRB of the leading site. In any condition which will greatly affect the progress of the study or increase the potential risk of the subjects, a written report should be submitted by the site P1 to the IRB. A protocol deviation report should be submitted by the site P1 monitor/researcher if any of the following occurs: conditions that violate the study protocol: subjects who did not meet the inclusion criteria, or should be excluded according to the inclusion report should be excluded accord study was badly affected. A final report should be submitted when the study is finished completely or terminated prematurely. Validity Period 12 months Tracking review dat December 24, 2019 Tracking review 12 months Tracking review date<						
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which will greatly affect the progress of the study or increase the potential risk of the subjects, a written report should be submitted by the site PI to the IRB. A protocol deviation report should be submitted by the site PI to the IRB. A protocol deviation report should be submitted by the site PI/monitor/researcher if any of the following occurs: conditions that violate the study protocol: subjects who did not meet the inclusion criteria, or should be excluded according to the exclusion criteria, were wrongly included in the study; incorrect treatment or dose was given; prohibited combined medicine was used; conditions that violate GCP principle: subjects' rights and health are badly affected; the science of study was badly affected. A final report should be submitted when the study is finished completely or terminated prematurely. Validity Period Tracking review frequency 12 months Tracking review date Director Signature Ite Qiao, +86 010-88001552, E-mail: gamhec@126.com Director Signature Iter Director Signature Iter Director Signature Tracking 'anmen Hospital of Chines Kedical Sciences (Seal) Date: December 24, 2019		site should be submitted by the s	site PI to the IRB of the lead	ling site. In any condition		
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criteria, were wrongly included in the study; incorrect treatment or dose was given; prohibited combined medicine was used; conditions that violate GCP principle: subjects' rights and health are badly affected; the science of study was badly affected. A final report should be submitted when the study is finished completely or terminated prematurely.Validity PeriodFrom December 25,2018 to December 24, 2019Tracking review frequencyTracking review date12 monthsTracking review dateOntactJie Qiao, +86 010-88001552, E-mail: gamhec@126.comDirector SignatureHaibo YinIRB of Guang'anmen Hospital of China Academy of Chinese Medical Sciences (Seal)Date: December 24, 2018		did not meet the inclusion criter	ia, or should be excluded ac	cording to the exclusion		
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Director Signature Haibo Yin IRB of Guang'anmen Hospital of China Academy of Chinese Medical Sciences (Seal) Date: December 24, 2018	Contact	Jie Qiao, +86 01	0-88001552, E-mail: gamhe	ec@126.com		
IRB of Guang'anmen Hospital of China Academy of Chinese Medical Sciences (Seal) Date: December 24, 2018	Director Signature		Haibo Yin			
Date: December 24, 2018	IRB of	f Guang'anmen Hospital of Ch	ina Academy of Chinese	Medical Sciences (Seal)		
				Date: December 24, 2018		
Version No.03.05 / Version Date: 20170824			Version No.03.05	/ Version Date: 20170824		



中国中医科学院广安门医院伦理委员会文件(EC_AF_054)

1

伦理审查批件

项目名称	电针缓解癌痛阿片类的	与物性便秘随机对	照试验		
批件号	2018-164-KY-01	项日米源	研究者		
研究单位	中国中医科学院广安门	1医院			
中办者	无	- autore average			
主要研究者	刘志顺	研究科室	针灸科		
审查类别	复审	审查方式	快速审查		
東春日期	2018-12-20	审查地点	中国中医科学院广安门医院		
山市委员	段海波,曹纬				
a all	 研究方案(版本) 病例报告表(版本) 知情同意书(版本) 知情同意书(版本) 	子: 2018093001: A 体号: VERSION 1.0, 体号: 2018113001: オ. 20180930: 版石	反本日期: 2018-09-30) _20180930: 版本日期: 2018-09-30) 版本日期: 2018-11-30) た日期: 2018-09-30)		
批准文件及版本	 相册) 古(成本) 日记卡-筛选羽(月) 日记卡-广游访羽(月) 明究者手册(版) 研究者手册(版) 	版本号: VERSION 1. 版本号: VERSION 1. 版本号: VERSION 1. 版本号: 2018093001: 号: 2018113001: 月	0_20180930: 版本日期: 2018-09-30 0_20180930: 版本日期: 2018-09-30 0_20180930: 版本日期: 2018-09-30 成本日期: 2018-9-30 版本日期: 2018-11-30)		
审查意见	食品监督管理局(药4 (药物临床试验伦理) 究伦理审查管理规范) 布的(人体生物医学研 同意按所批准的临床研 请遵循 GCP 原则 者的健康与权利。 若在三年内未启; 研究过程中若变) 料等的任何修改,请 如发生严重不良; 请人在获知后15个工 请在获知后15个工 请按照伦理委员; 1个月提交研究进展排 进展的汇总报告;当 况时,请中请人及时	助临床试验质量管则 新查工作指导原则 研究方面标准的标志。 研究方面标准。 研究方面的一种。 研究方面的一种。 研究示示研究。 一种。 一种。 一种。 一种。 一种。 一种。 一种。 一种。 一种。 一种	理規范》、《医疗器械临床试验规定》) 国家中医药管理局《中医药临床码 宣言》和国际医学科学组织委员会最 的伦理原则,经本伦理委员会审查 意书、招募材料开展本项研究。 批准的方案开展临床研究,保护受证 废,需重新提交伦理审查申请。 临床研究方案、知情同意书、招募 审查申请。 风险受益比的非预期不良事件,请用 良事件报告,如果是致死的不良反应。]跟踪审查频率,申请人在截止日期前 组长单位伦理委员会提交各中心研究 影响试验进行或增加受试者危险的情 书面报告。		

版本号: 03.05/版本日期: 20170824

第1页/共2页

	定而未让受试者) 等没有递从方案; 学性造成不良影中 背方案报告。 提前终止或;	退出研究,给予错误治疗或剂 开展研究的情况;或可能对受 响等违背 GCP 原则的情况, 完成临床研究,请及时提交研	利量,给予方案禁止的合并用药 {:试者的权益/健康以及研究的科 请中办者/监查员/研究者提交遗 {究完成报告。
批件有效期	2018年12月25	日~2019年12月24日	
跟踪审查频率	12 个月	跟踪审查截止日期	2019年12月24日
联系人与联系方式	联系人: 乔洁	联系电话: 010-88001552	Email: gammec@126.com
主任委员/副主任委 员签字	5884	+ S	A A A
		中国中医科学院厂	一安门医院伦理委员会(盖章)
		日期: 201	8年他捏委佣令

版本号: 03.05/版本日期: 20170824

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41 Ethical Approvals of the First Affiliated Hospital of Guizhou University of 42 Traditional Chinese Medicine

Approval No.	H2019-001			
Trial name	Effect of acupuncture for opioid-induced constipation in patients with cancer: a randomized controlled trial			
Project source	Guang'an men Hospital Affiliated to China Academy of Chinese Medical Sciences			
Applicators	Cunxia LU			
Review Date	March 5, 2019	Review Place	GCP meeting room in the First Affiliated Hospital of Guizhou University of Traditional Chinese Medicine	
Approval	Technical Service Contract, Ethical Ap	provals of Guang'	anmen Hospital of China Academy of	
Files	Chinese Medical Sciences			
Review Comments	According to "ethical review methods for biomedical study involving human subjects(2016)" issued by the Ministry of Health, "Good Clinical Practice", "International ethical guidelines for biomedical research involving human subjects" issued by Council for International Organizations of Medical Sciences, and "Declaration of Helsinki", this research was approved after review by the ethics committee. Please conduct the study in accordance with the protocol approved by the ethics committee, and protect the health and rights of the participants.			
Ethics Comm	IRB of he First Affiliated Hospital of Guizhou University of Traditional Chinese Medicine			
ittee	(Seal)			
Date	March 5, 2019			
	·			

贵阳中医学院第一附属医院伦理委员会

伦理审查批件(科研)

批件号	H2019-001			
项目名称	电针缓解癌痛阿片类药物性便秘一随机对照试验			
项目来源	中国中医科学院广安门医院			
申请人		卢春霞		
审查日期	2019. 03. 05	审查地 点	贵阳中医学院第一附属医院 GCP 会议室	
审查文件	技术服务合同、北京总中心的伦理批件			
审查意见:	×			
根据卫	计委《涉及人的	1生物医学研	所究伦理审查办法(2016)》、WMA《赫尔辛基	
宣言》和C	宣言》和 CIOMS《人体生物医学研究国际道德指南》的伦理原则,经本伦理委员会			
审查,同意	就开展本项科研研	开究。		
请遵循伦理委员会批准的方案开展研究,保护受试者的健康与权力。				
伦理委员会(董章)				
E	日期 伦理委员会.05			

50 Approval letter of Medical Ethics Committee of Zhejiang Hospital

51 Approval No.: 2019-PI-(6k)

Date of issue: 2019. 2. 28

Study title	Effect of acupuncture for opioid-induced constipation in patients with cancer: a randomized controlled trial				
Sponsor	Zhejiang Hospital				
Principal investigator	Xiaoqing Jin, Jianfang Zhu	Jian fang Zhu Specialty Acupuncture and moxibustic department			
Category of review	Initial review, second review	Type of review	Meeting review, quick review		
Date of review	2019.2.22, 2019.2.28	Location of review Meeting room131 in No. 8 build			
	1. Application form for Initial Review of	of the study			
	2. Study Protocol (VERSION1.0_201	8093001/Septemb	per 30, 2018)		
	3. Supplementary Study Protocol of Zh	ejiang Hospital (VERSION1.0, January 3, 2019)		
	4. Informed Consent (VERSION2.1, February 27, 2019)				
Reviewed items	5. Participant recruitment advertisement	t (VERSION1.0,	January 3, 2019)		
	6. Emergency plan				
	7. Case Report Form(VERSION1.0_20	18093001/Septen	nber 30, 2018)		
	8. Diary card in screening period (VERSI	ON1.0_20180930	001/September 30, 2018)		
	9. Diary card in treatment period (VERSI	ON1.0_20180930	001/September 30, 2018)		
	10. Diary card in follow-up period (VERS	SION1.0_201809	3001/September 30, 2018)		
	11.The resume of principal investigator a	nd certification of	GCP		
	12. Ethical Approvals of Guang' anmen H	lospital of China A	Academy of Chinese Medical Sciences		
	The ethics committee conducted a meetin	g review and rapid	d review of the above items, and		
Evaluation	education and herefit and risk assessed	on, clinical study j	plan, informed consent, recruitment		
	advertisement and benefit and risk assessment were basically in compliant with the ethical				
	requirements , and agreed to early out are	ennieur study.			
Decision	The Committee's deci	sion on the study	protocol: Approval		
	Will be the study accept a follow-up revie	w during the stud	y by the Ethics committee? Yes		
Continual	The frequency of review will be once eve	ry 12 months from	n the date of approval of the study,		
review	please submit the research progress report	t one month before	e February 27, 2020.		
	The ethics committee reserves the right to	change the frequ	ency of follow-up reviews based on		
	actual progress.				

Notes:

1. Please follow the relevant laws and regulations of China, "Standard for quality management of drug clinical trials(2003)" and "Standard for quality management of clinical trials on medical devices(2016)" issued by China Food and Drug Administration (CFDA), Declaration of Helsinki", and "International ethical guidelines for biomedical research involving human subjects" issued by Council for International Organizations of Medical Sciences, "ethical review methods for biomedical study involving human subjects(2016)" issued by the Ministry of Health.

2. Please follow the clinical study protocol, informed consent and recruitment materials approved by the ETHICS Committee to conduct this study, and protect the health and rights of the participants. Any changes to the study protocol, informed consent and recruitment materials must be reviewed and approved by the ethics committee.
3. Serious adverse events or unexpected adverse events occurring in Zhejiang hospital should be submitted to our ethics committee within 24 hours. Serious adverse events or unexpected adverse events or unexpected adverse events or unexpected adverse events occurring at other centers in China shall be periodically collected and submitted to the ethics committee. All unexpected adverse events occurring in the foreign branch centers shall also be periodically collected and submitted to the ethics committee, the ethics committee reserves the right to make a new decision on its assessment.

4. Starting today, whether the trial has started or not, a progress report is required one month before the follow-up review is due. If the study is in progress, please submit the study progress report 2 months before the approval expires. The study can be continued only after the approval is reviewed and approved by the ethics committee.
5. The investigator and sponsor shall submit a summary of the center's research progress report to the ethics committee of the leader site, and the applicant shall timely submit a written report to the ETHICS Committee in case of any situation that may affect the conduct of the study or increase the risk of subjects.

6. A protocol deviation report should be submitted by the site investigator and sponsor if any of the following occurs: conditions that violate the study protocol: subjects who did not meet the inclusion criteria, or should be excluded according to the exclusion criteria, were wrongly included in the study; incorrect treatment or dose was given; prohibited combined medicine was used; conditions that violate GCP principle: subjects' rights and health are badly affected; the science of study was badly affected.

7. If the applicant suspends or terminates the clinical study in advance, please submit the suspension or termination report in time.

Chair	He Xiaobo
signature	
Approval	2019.2.28
date	
Stamp of	Ethics Committee of Zhejiang Hospital(seal)
ZJEC	
Period of	This approval is valid from February 28, 2019, to February 27, 2022. If it is not implemented within
validity	the time limit, it shall be abolished automatically
Statement	The responsibilities, personnel composition, operating procedures and records of the ethics
	committee have followed the ethical review principle of "Quality management standards for drug
	clinical trials(2003)", "Standard for quality management of clinical trials on medical devices(2016)"
	and ICH-GCP promulgated by the National Medical Products Administration of the People's
	Republic of China, and abide by the relevant laws and regulations of China.

8. A final report should be submitted when the study is finished completely or terminated prematurely.

52 Address: No 12, Linyin road, Hangzhou, Zhejiang, China (310013), Contact: +86 0571-81595231, Contact person:

53 WeiLi/Xiaoping Xie, E-mail: zjyykjkli@163.com

浙江医院医学伦理委员会 临床试验审查批件

Approval Letter of Medical Ethics Committee of Zhejiang Hospital

批件号 Approval NO.: 2019 临审第(6K)号

签发目期 Date of issue : 2019.02.28

項目名称 Study Title	电针缓解瘤痛阿片类药物性僵秘——随机对照试验你床研究				
申办方 Sponsor	浙江医院				
主要研究者 Principal Investigator	金肖青、诸创方 承担专业 针灸科 Specialty				
审查类别 Category of Review	初始审查、复审 审查方式 会议审查、快速审查 Type of Review				
审查日期 Date of Review	2019.02.22, 2019.02.28	审查地点 Location of Review	8 号楼 313 会议室 各自办公室		
审查文件 満单 Reviewed Items	Location of Review 各自办公室 1. 临床课题研究初始审查申请书 各自办公室 2. 研究方案, 版本号: 2018093001, 日期: 2018.9.30 3. 浙江医院补充临床研究方案, 1.0 版, 日期: 2019.01.03 4. 知情同意书, 2.1 版, 日期: 2019.02.27 5. 招募广告, 2.0 版, 日期: 2019.01.03 6. 应急预案 9. 患者日记卡(筛选期), 版本号和日期: VERSION 1.0_20180930 <				
审评意见 Evaluation 审查决定 Decision	 研究者责任声明 组长单位伦理批件 本伦理委员会对上述资料进行了会议审查和快速审查,认为研究者资质、临床研究方案、知情同意书、招募广告和受益与风险评估等基本符合伦理规范,同意实施临床研究。 委员会对该方案的审查决定为: ■同意 (Approval) 				
年度/定期跟 踪审查 Continual Review	该研究进行过程中将接受伦理委员 审查频率为该研究批准之日起每1 月递交研究进展报告。 伦理委员会有根据实际进展情况改	會的跟踪甲查? ■是(Ye 2 个月一次, 首次, 请子 (变跟踪审查频率的权利。	8) □台(No) 2020年02月27日前1个		

地址:杭州市灵隐路 12 号 部编: 310013 电话: 0571-81595231 联系人: 李卫/谢小弈 邮箱: zjrykjkli@163.com



59 Approvals of Ethical Review

Approvals of Ethical Review					
Approval No.		2019N	L-031-03		
Trial asses	Effect of acupuncture for opioid-induced constipation in patients with cancer: a				
I rial name	randomized controlled trial				
Project source	Guang'an men	Hospital Affiliated to Ch	ina Academy of Chinese Medical Sciences		
Participating Center	Jiangsu Province Hospital of Traditional Chinese Medicine				
Site PI		Jianhua Sun			
Review Attribute	Second review Review methods Quick Review				
Review Date	June 18, 2019	Review Place			
Committee Member		Yuho	ong Xu		
Approval Files	Revised study Pr	rotocol (VERSION_2019 ortisement (VERSION_20 Consent(VERSION_20	0040901/April 9, 2019) , Revised participant 019040901/April 9, 2019), Revised informed 019040901/April 9, 2019)		
Review Comments	According to "et	hical review methods for	biomedical study involving human		
	subjects(2016)" i	issued by the Ministry of	Health, "Good Clinical Practice(2003)",		
	"Provisions for C	Clinical Trials of Medical	Device(2016)", "Declaration of Helsinki"		
	and "Internationa	al ethical guidelines for bi	omedical research involving human		
	subjects" issued	by Council for Internation	nal Organizations of Medical Sciences,		
	this clinical resea	arch was reviewed by the	institutional review board (IRB) of		
	Guang'anmen He	ospital of China Academy	of Chinese Medical Sciences. And the		
	study protocol, in	nformed consent, and the	recruitment files of this research were		
	approved.				
	Please conduct the	nis clinical study followin	g the GCP principles and the study protocol		
	approved by the	IRB. The health and right	s of the subjects should be protected		
	throughout the w	hole study.			
	Prior to the imple	ementation of a research p	project approved by the ethics committee,		
	the principal of the	he research project shall r	egister the main contents and ethical review		
	decisions of the r	research project in the me	dical research Registration and archival		
	Information syste	em. Research projects inv	olving Chinese human genetic resources that		
	need to be submi	tted for approval should b	be approved by the Chinese Office of Human		
	Genetic Resource	es Management before sta	arting research.		
	An application sl	hould be submitted if a ch	ange of the principle investigator (PI), or		
	any modification	of the study protocol, inf	formed consent, or the recruitment files are		
	made.				
	If a serious adver	rse event occurs, the appli	icant should submit a serious adverse event		
	report in time				
	Researchers shou	ald submit report of the st	udy progress one month before the deadline		
	according to ethi	cal review frequency. A s	ummary report of the study progress of each		
	site should be su	bmitted by the site PI to the	he IRB of the leading site. In any condition		
	which will great	y affect the progress of th	e study or increase the potential risk of the		
	subjects, a writte	n report should be submit	ted by the site PI to the IRB. Beyond the		
	period of validity	, if research progress repo	ort of the study project was not submitted		

	and the study was not obtaining ethical approval to continue the study project,
	researchers must immediately stop all research activities, including intervention and
	data collection. If discontinuing the study intervention could cause harm to the subject,
	the investigator should ask the ethics committee to approve the continuing study of the
	subject.
	A protocol deviation report should be submitted by the site PI/monitor/researcher if
	any of the following occurs: conditions that violate the study protocol: subjects who
	did not meet the inclusion criteria, or should be excluded according to the exclusion
	criteria, were wrongly included in the study; incorrect treatment or dose was given;
	prohibited combined medicine was used; conditions that violate GCP principle:
	subjects' rights and health are badly affected; the science of study was badly affected.
	If the applicant has suspended or terminated the clinical study in advance, please
	submit the suspension/termination report timely.
	To complete the clinical study, applicants shall submit a study completion report and a
	summary report outlining the study findings and conclusions.
Annual/Regular tracking review frequency	Please submit the research progress report one month before June 18, 2020
Validity Period	12 months
Contact	Jing Wu, +86 025-86560515
Director Signature	Ming hua Wu
IRB of 4. Jiang	gsu Province Hospital of Traditional Chinese Medicine of Nanjing University of
	Traditional Chinese Medicine (Seal)
	Date: June 18, 2019

伦理审查批件

项目夕称	由针缓解癌痛阿片类药物性便秘随机对昭试验			
项目来源	电针缓胜增加四万关约初性使他一胞化内原试验 由国中库科学院广宏门库隐自招课题			
研究单位	平国于医科子(加) 又门医阮日)98味题 江茶省中医院			
主要研究者	<u>动建化</u>			
宙杏举别	复宙申请	宙杳方式	t.	快速宙查
宙杏日期	2019年06月18日	审查地点	5	DCAL T LL
审查委员	徐玉红		··· · ·	
审查批准文件	修正的临床研究方案 版 修正的招募材料 版本号 修正的知情同意书 版本	本号: 201904090 : 2019040901 版 号: 2019061201	01 版本日期 〔本日期: 20 版本日期:	2019-04-09 2019-04-09 2019-06-12
审查意见				
利。 经伦理委员 容、伦理审查决	会批准的研究项目在实施	面前,研究项目 负	责人应当将	4这研究项目的主要内
报批的研究项目 研究过程中 请如常之提交修 发生严重化理 报告:影响批告:影响批告: 超出即停止所 造成伤害,研究 退动可能对受试着。 明示,给予错 或可能对受试着。 中请,给下错。 "宣改吃店。"	定在医学研究登记备案信 在医学研究登记备案信 大应在获得中国人类遗传 若变更主要研究者,对临 正案审查申请。 良事件,请申请人及时损 应立当向组长单位伦理委员 这一次,没有提交研究进展 有研究活动,包括干预措 者应当要求伦理委员会扣 行案治疗或剂量,给予方案 的权益/健康、以及研究的 异究治疗或剂量,给予方案 的权益/健康、以及研究的 手究者提交违指方案报告, 或者描终止造体想交研究 意言。	息系统进行登记。 资源管理办公室 管理不良事件、 空严重不良事件、 空查频率,申请人 会提交各中心研! 的情况时,请申请人 发出时,得伦理印 施和数据收集。看 准在研的受试者 派本在研的受试者 5本止的合并用药良 及时提交暂停/终 世界生生。因及断	。凡涉及中目 批准后才能 行同意书、招 报告。 不截止日期二 有人及时准继 段若停止田邦二 有查批准的向向 维续合个道从 常没有道人 影响等违 者 经 上研究我 物	国人类遗传资源、需要 开始研究。 募材料等的任何修改 算材料等的任何修改 企理委员会提交书面打 之理委员会提交书面打 之王预可能会对受试者 之干预可能会对受试者 完。 武验规定而未让受试者 方案开展研究的情况,请 。 004:论的自体指告
报批的研究项目 研究过程中 请如常之提交修 发生严重化理 报告:影响试告:影响就验 告。须伤伤害,研究 强出时停止所 研究,给予错 或所完,给予错 可能对受试者。 申请者/监查员/两 申请人提查员/两 中请他不完,给予错	定在医学研究登记备案信 在 医学研究登记备案信 在 在 获得中国人类遗传 若变更主要研究者,对临 正案审查申请。 良事件,请申请人及时损 回事件,请申请人及时损 回立当向组长单位伦理委员 这当向组长单位伦理委员 这一次,包括干预措 者应当要求伦理委员会扣 计定治疗或剂量,给予方案 的权益/健康、以及研究自 研究治影。此及研究介 就是治疗或剂量,给予方案 的权益/健康、以及研究介 就是治疗或剂量,给予方案 的权益/健康、以及研究介 一次,请申请人提交研究介 "会脑察」请于 2000年 0	息系统进行登记。 资源管理办公室 管理不良事件, 空产频率,申请人 会情况时,请申请人 会情况时,请申请人 规告并获据收集。看 准在研的受试者 新科学性造成不良 及时提。知及概 6 日18 日前	。凡涉及中目 批准后才能 行同意书、招 报告。 不截止日期二 有人及时准备 最着人及时准备 最着体。 一时二 。 等没有道子 。 。 等没有等量 报 现 。 。 。 。 。 。 。 。 。 。 。 。 。 。 等 》 。 。 。 。	国人类遗传资源、需要 开始研究。 募材料等的任何修改 算材料等的任何修改 企理委员会提交书面打 之理委员会提交书面打 之干预可能会对受试者 完。 武验规定而未让受试者 方案开展研究的情况,前 。 和结论的总结报告。 谁属取集
报批的研究项目 研究过程中 请中请人提交修 发生严重不理 报告: 影响试验 告。超出批伴止所 造成伤害,研究 退出研究,给予错 电办者/监查员/向 申请人监查员/向 申请人监查员/向 电请人暂停 完成临限研研 年度/定期跟踪	定在医学研究登记备案信 , 应在获得中国人类遗传 若变軍主要研究者, 对临 正案审查申请。 良事件, 请申请人及时损 原事件, 请申请人及时损 应立当向组长单位伦理委员 进行、或增加受试者危险 效期, 没有提交研究进展 有研究活动,包括干预措 者应当要求伦理委员会排 情治疗或剂量,给予方案 的权益/健康、以及研究的 好常者提交违背方案报告。 或提前终止临床研究, 请 定者提交通常方案报告。 或提前终止临床研究,请 一方案 指申请人提交研究完 (查频率) 请申请人提交研究完 12 201 0 1 12 201	息系统进行登记。 资源管理办公室 常研究方案、知情 空重频率,申请人 会提交各中心研! 的情况时,请申请人 会提交各中心研! 的情况时,请你可 能告并我握收集。 4 准在研的受试者 小科学性造成不良 及时提交暂停/线 成报告,以及概 6月18日前1个	。凡涉及中目 批准后才能 行同意书、招 报告。 、在截止日期二, 有人及时准定时有 有查批准止研死 。等没有查找出止研 。等没有道达 帮 、任研究发现 行提交研究	国人类遗传资源、需要 开始研究。 募材料等的任何修改 算材料等的任何修改 2.1前1个月提交研究员 2.1在一个月提交研究员 2.1在一个月提交研究员 2.1在一个月提交研究的 2.1在一个月提交研究的 2.1在一个月提交研究的 了。 3.1在一个月提交研究的 了。 3.1在一个月提交研究的 了。 3.1在一个月提交研究的 了。 3.1在一个月提交研究的 了。 3.1在一个月提交研究员 3.1在一个月提及 3.1在一个月提交研究员 3.1在一个月提及 3.1在一个月提 3.1在一个月提及 3.1在一个月提 3.1在一个月提 3.1在一个月提 3.1在一个月上的 3.1在一个月上的 3.1在一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
报批的研究项目 研究过程中 请中请人提空重不理 误上严重伦理 展显著超出推停止的。给予帮 思出研究,给予帮 出研究,给予帮 电办者/监查暂停 定成临床研 年度/定期跟踪律 有效期	定在医学研究登记备案信 、应在获得中国人类遗传 若变更主要研究者,对临 正案审查申请。 良事件,请申请人及时期 应立当向组长单位伦理委员 进行、或增加受试者危险 效期,没有提交研究进展 有研究活动,包括干预措 者应当要求伦理委员会批 有研究活动,包括干预措 者应当要求伦理委员会批 行实动利量,给予方案 的权益/健康、以及研究自 听究者提交违背方案报告。 或提前终止临床研究,语 查频率 信2 2020 年 0 12 年	息系统进行登记。 资源管理办公室 常研究方案、知律 空严重不良事件人 宫查频率,申请明 的情况时,请申证 报告并获得伦理印 施和数据收集。4 "准在研的受试者 读止的合并用药良 及时提交暂停/线 成报告,以及概 6月18日前1个	。凡涉及中目 批准后才能 行同意书、招 报告。 大招 人在截止日期二 有 有查批准他时间继 段若续。 中止研究 发现。 一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一	国人类遗传资源、需要 开始研究。 募材料等的任何修改 算材料等的任何修改 2.1 个月提交研究员 总报告;当出现任何可 2.2 理委员会提交书面封 责研究的项目,研究录 无干预可能会对受试表 充。 武验规定而未让受试表 方案开展研究的情况,请 。 和结论的总结报告。 进展报告
报批的研究项目 研究过程中 请申请人提至重不理 发生严重伦理 展报显著影出批合了。 给不了。 给不了。 一般,一般,一般,一般,一般,一般,一般,一般,一般,一般,一般,一般,一般,一	定在医学研究登记备案信 在医学研究登记备案信 大应在获得中国人类遗传 若变軍主要研究者,对临 正案审查申请。 良事件,请申请人及时期 反立当向组长单位伦理委员 这些的年度/定期再 变当向组长单位伦理委员 进行、或增加受试者危险 效期,没有提交研究进展 有研究活动,包括干预措 者应当要求伦理委员会排 有研究活动,包括干预指 者应当要求伦理委员会排 行文新利量,给予方案 的权益/健康、以及研究的 行文者提交违背方案报告。 或提前终止临床研究,请 查频率 请于 2020 年 0 12 个月 电话 吴静 025-865	息系统进行登记。 资源管理办公室 常研究方案、知律 空严重不良事件, 宫查频定各中心请! 的情况时,请中证 报告并获得伦理纪 施和数据收集。4 "准在研的受试者 以及概集,以及概 6月18日前1个	。凡涉及中目 批准后才能 行同意书、招 报告。 大招 大在截止日期二 有 有查批准准研 发给续合有道是 一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一	国人类遗传资源、需要 开始研究。 募材料等的任何修改 算材料等的任何修改 2.1前1个月提交研究员 2.14天子,当出现任何可 2.24天委员会提交书面封 表研究的项目,研究者 艺干预可能会对受试者 充。 武验规定而未让受试者 方案开展研究的情况,前 。 和结论的总结报告。 进展报告
报批的研究项目 研究过程中 请申请人提严重不理 发生严重化理 展报者影出批告。每一次 。 超出即停止所 造成伤害,研究 。 给予销 电办者/监查到你 中亦者/监查到你 中亦者/监查到你 中亦者/监查到你 中亦者/监查到你 中亦者/监查到你 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦者/监查 中亦之。 "弟子 明 或 后,,可究 。 " 弟子 书 一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一	定在医学研究登记备案信 、应在获得中国人类遗传 若变軍主要研究者,对临 花案审查申请。 良事件,请申请人及时期 应立当向组长单位伦理委员 这些优化。在一个,一个,一个,一个,一个,一个,一个,一个,一个,一个,一个,一个,一个,一	息系统进行登记。 资源管理办公室 常研究方案、知律 空重处定者中心明计 空查频率,中心研计 的情况时,请中证明 报告并获得伦理切 施和数据收集。4 "准在研的受试者 "就正的合并用药良 及时提定暂停停线 成报告,以及概 6月18日前1个	。凡涉及中国 批准后才能 行同意书、招 报告。 大招 展在截止日期。 有 有查批准他的向继 没 招续合有道是 了 你 一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一	国人类遗传资源、需要 开始研究。 募材料等的任何修改 算有 1 个月提交研究员 总报告;当出现任何可 论理委员会提交书面封 责研究的项目,研究录 无干预可能会对受试表 充。 武验规定而未让受试表 方案开展研究的情况,请 。 和结论的总结报告。 进展报告

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Institutional Review Board Document of Hengyang Hospital affiliated with Hunan University of Chinese Medicine (EC-AF-2019006)

65 Ethical Approvals of Hengyang Hospital affiliated with Hunan University of

66

Chinese Medicine

Trial name	Effect of acupuncture for opioid-induced constipation in patients with cancer: a randomized				
		controlled trial			
Project Sponsor	Guang'an men H	Iospital Affiliated to China Academy	of Chinese Medical Sciences		
Site	Hengyang H	Iospital affiliated with Hunan Univers	ity of Chinese Medicine		
Applicant (if any)	/				
Site PI	Zenghui Yue, Jun Xie				
Review Attribute	Initial review Methods Quick review				
Raview Date	January 12, 2019	Deview Diego	Conference room, the 9 th floor		
Review Date		Keview Flace	of hospital clinical building		
Committee	Chengxi Wang, Sh	uangcai Long, Yueping Zou, Jiping X	u, Xinlin Zhong, Zhao Kuang,		
Member		Qiuping Dong			
Approval Files	Study Protocol (VERSION1.0 _ 2018093001), Inform	ned Consent (VERSION1.0_		
		2018113001)			
Review Comments	According to "ethical	review methods for biomedical study	v involving human subjects"		
	issued by the Ministr	y of Health, "Good Clinical Practice",	"Provisions for Clinical Trials		
	of Medical Device" a	nd "Guidelines for Ethical Review W	ork of Drug Clinical Trials"		
	issued by State Food	and Drug Administration (SFDA) of t	he People's Republic of China,		
	"management specifi	cations for ethical review of TCM clir	nical studies" issued by State		
	Administration of Tra	ditional Chinese Medicine, "Declarat	ion of Helsinki", and		
	"International ethical	guidelines for biomedical research in	volving human subjects" issued		
	by Council for Intern	ational Organizations of Medical Scie	nces, this clinical research was		
	reviewed by the instit	rutional review board (IRB) of the Her	ngyang Hospital affiliated with		
	Hunan University of	Chinese Medicine. And the study prot	ocol, informed consent, and the		
	recruitment files of th	is research were approved.			
	Please conduct this clinical study following the GCP principles and the study protocol				
	approved by the IRB.	The health and rights of the subjects	should be protected throughout		
	the whole study.				
	An application should	d be submitted if a change of the princ	tiple investigator (PI), or any		
	modification of the st	udy protocol, informed consent, or the	e recruitment files are made.		
	A report of the severe	adverse events (SAE) should be subr	nitted in time if any SAE or any		
	other un-anticipated A	AE, which will affect the risk-reward n	ratio of this study, occurs.		
	Researchers should st	ubmit report of the study progress one	month before the deadline		
	according to ethical r	eview frequency. A summary report of	f the study progress of each site		
	should be submitted b	by the site PI to the IRB of the leading	site. In any condition which will		
	greatly affect the prog	gress of the study or increase the poter	ntial risk of the subjects, a		
	written report should be submitted by the site PI to the IRB.				

	A protocol deviation report should be submitted by the site PI/monitor/researcher if any of
	the following occurs: 1) conditions that violate the study protocol: subjects who did not
	meet the inclusion criteria, or should be excluded according to the exclusion criteria, were
	wrongly included in the study; subjects do not withdraw from the study when he/she meet
	the rules of withdrawal; incorrect treatment or dose was given; prohibited combined
	medicine was used; 2) conditions that violate GCP principle: subjects' rights and health are
	badly affected; the science of study was badly affected.
	A final report should be submitted when the study is finished completely or terminated
	prematurely.
Validity Period	From February, 2019 to February, 2020
Contact	+86 0734-8137737; Jun Xie
Director	Changyi Wang
Signature	Chengxi wang
Institut	tional Ethics Committee of Hengyang Hospital affiliated with Hunan University of Chinese
	Medicine(Seal)
	Date: January 16, 2019

Page 1 of 1

67 Version No.1.00/Version Date January 16, 2019

	伦理审查批件			
用具名称	也针摇射座桅冈片类药物性视量一酸机对组试验			
项目未遂与编号	中語中医科学院基本科研业多费自主成整项目			
幸夷单位	南张中国药大学 用属	新加延年		
申志者(如有)				
主要研究者	品增 酶、谢军			
軍查类視	初始审查 审查方式	快速半查		
座查日期	2019.01.12 甲套堆点	医院门穿梭呈楼会议里		
筆書委員	王诚喜。党双才、驾臣祥、徐基平、钟颖林、匠璧、雪秋萍			
	研究方案:(版本号:2018093001)			
虹座又开	· 抽情间意书。(股本号: 2018113001)			
# 查意见	第四条.12 包括一,19月9日年末以前常量增加 定)、《百物特殊试验论规律查丁作指导期》 药物压获完论理率查管理规范》以及《易有 积委员会单责。使一按所批准的临床研究力 成本项研究。 请遗循 GP 用则、遵循论理委员会批准的 者的健康与权力。 研究过程中若受更主要研究者、对信从可 相等的任何性改,清申请人起它推正案审核 如发生产业不良事件以及影响研究以应必 诱人及时提交不良事件报告。 "请按用论理委员会规定的年度/定用那简 前 1 作月提空研究选展相告。非报者应当的 动脉突进展的汇总接击,当出现任何可能 着枪脑的情况时,清申请人及时自伦理委员 展览的人子不符合纳入标准或符合捐除标 定而未让受试考进出研究,给予错误的好感 药等没有变成为案件履研究的情况。或可 完的科学性造成不良影响等选育 GP 原则的 者提究选有方案报告。 提前终止或完成集不明究、诸及时提交会 2019年 2月-2010	(1)、国家中医药管理局(中国) (2)、国家中医药管理局(中国) (全基管理)和国际院学科学生 (增佳束)的伦理规则,经本特 (增佳束)的伦理规则,经本特 (增佳束)的伦理规则,经本特 (增佳束)的伦理规则,经本特 (增佳束)的伦理规则,经本特 (增佳束)。 (有实、加情院童书,招募材料) (方案开展信乐研究,借护受) (注意到本,带清人在截止日) (重查预本,中清人在截止日) (重查预本,中清人在截止日) (重查预本,中清人在截止日) (重查预本,中清人在截止日) (重查预本,中清人在截止日) (重查预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在截止日) (重要预本,中清人在载出日) (重要预本,中清人在载出日) (重要预本,中清人在载出日) (重要预本,中清人在载出日) (重要预本,中清人在载出日) (重要可称重本,中清人在载出日) (重要可称重本,中清人在载出日) (重要可称重本,重本力) (重要可称重本,重要可有重本) (重要可称重本) (重要重本) (重要可称重本) (重要可称重本) (重要可称重本) (重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重要可称重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事可重本) (重事 (重事 (重事 (重事 (重事 (重事 (重重 (重重 (重重 (重重		
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主任委员留平	#RE 6	A A A A A A A A A A A A A A A A A A A		
	战府中保护大学时候	ale 和時來 他理委员会(西車)		
	2019年1月	HAR BUT		
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Trial name	Effect of acupuncture for opioid-induced constipation in patients with cancer: a randomized controlled trial				
Approval No.	2018-KY-026	Project Sponsor	Inve	estigator	
Applicant (if any)	/				
Site PI	Zhiwei Zang	Research departn	nent	Acupunctu	re and Moxibustion Deparment
Review Attribute	Initial review	Review Metho	ds		Quick review
Review Date	December 29, 2018	Review Place		Yantai Hosp Medicine	ital of Traditional Chinese
Applicant (if any)	/				
Site PI	Zhiwei Zang				
Review Attribute	Second review	Review	v Meth	ods	Quick review
Review Date	May 15, 2013	Revi	ew Pla	ce	Yantai Hospital of Traditional Chinese Medicine
Committee Member	AIhua Hou, Bo Liang				
	 Study Protocol (Case Report For Informed Consert 	(VERSION1.0_20 m(VERSION1.0_2 nt (VERSION1.0_3	180930 018093 201809	01/September 3001/Septemb 3001/Septemb	• 30, 2018), er 30, 2018), ber 30, 2018),
Approval Files	 4. Participant recruitment advertisement (VERSION1.0_2018093001/September 30, 2018), 5. Diary card in screening period (VERSION1.0_2018093001/September 30, 2018), 6.Diary card in treatment period (VERSION1.0_2018093001/September 30, 2018), 7. Diary card in follow-up period (VERSION1.0_2018093001/September 30, 2018), 8. Investigator's Brochure(VERSION1.0_2018093001/September 30, 2018), 9.Emergency plan(VERSION1.0_2018093001/September 30, 2018). 				
Review Comments	According to "ethi issued by the Mini of Medical Device issued by State Foo "management spec Administration of "International ethic by Council for Inter reviewed by the in Academy of Chine recruitment files of Please conduct the approved by the IF the whole study.	cal review methods stry of Health, "Goo " and "Guidelines fo od and Drug Admini cifications for ethica Traditional Chinese cal guidelines for bio ernational Organizat stitutional review bo ese Medical Sciences f this research were is clinical study foll RB. The health and r	for bio od Clini or Ethic stration l review Medici omedic ions of oard (IF s. And t approv owing ights of	medical study ical Practice", cal Review Wo n (SFDA) of the v of TCM clinic ine, "Declaration al research inv Medical Scient RB) of Guang" the study proto- ed. the GCP prince f the subjects set pat he initiate	involving human subjects" "Provisions for Clinical Trials ork of Drug Clinical Trials" he People's Republic of China, ical studies" issued by State ion of Helsinki", and volving human subjects" issued nees, this clinical research was anmen Hospital of China ocol, informed consent, and the siples and the study protocol should be protected throughout

70 Ethical Approvals of Yantai Hospital of Traditional Chinese Medicine

	application should be resubmitted.			
	An application should be submitted	l if a change of the principle	investigator (PI), or any	
	modification of the study protocol,	informed consent, or the red	cruitment files are made.	
	A report of the severe adverse even	ts (SAE) should be submitte	ed within 15 working days if	
	any SAE or any other un-anticipate	ed AE, which will affect the	risk-reward ratio of this	
	study, occurs. If a fatal adverse eve	nt occurs, please submit a se	erious adverse event report as	
	soon as it becomes known.			
	Researchers should submit report o	of the study progress one mo	nth before the deadline	
	according to ethical review frequency. A summary report of the study progress of each site			
	should be submitted by the site PI t	to the IRB of the leading site	e. In any condition which will	
	greatly affect the progress of the stu	udy or increase the potential	risk of the subjects, a	
	written report should be submitted by the site PI to the IRB.			
	A protocol deviation report should be submitted by the site PI/monitor/researcher if any of the following occurs: conditions that violate the study protocol: subjects who did not meet			
	the inclusion criteria, or should be	excluded according to the ex	cclusion criteria, were	
	wrongly included in the study; inco	prrect treatment or dose was	given; prohibited combined	
	medicine was used; conditions that	violate GCP principle: subj	ects' rights and health are	
	badly affected; the science of study	was badly affected.		
	A final report should be submitted	when the study is finished c	hen the study is finished completely or terminated	
	prematurely.			
Validity Period	From Decem	ber 30, 2018 to December 2	9, 2019	
Tracking review	12 months	Treating anyion data	December 20, 2010	
frequency	12 montins	Tracking review date	December 29, 2019	
Contact	Jinghua Ma, +86 053	5-6597012, E-mail: kjk212	7022@163.com	
Director		Viingeneralis		
Signature		i unpeng Liu		
		Yantai Hospital of Traditi	onal Chinese Medicine (Seal)	
			Date: December 29, 2018	

项目名称	电针缓解癌痛阿片类药物性便秘-随机对照试验			
批件号	2018-KY-026		项目来源	研究者
研究单位	烟台市中医医院			
申办者	无			
主要研究者	臧志伟	研究科室	针灸	推拿科
审查类别	初始审查	审查方式	快道	東审查
审查日期	2018-12-29	审查地点	烟台市	中医医院
审查委员	侯爱画、梁波			
批准文件及版本	2. 州 例报告表(版本号: VEHION 1.0_20180930;版本日期: 2018-09-30) 3. 知情同意书(版本号: 2018113001;版本日期: 2018-11- 30) 4. 招募广告(版本号: 20180930;版本日期: 2018-09-30) 5. 日记卡-筛选期(版本号: VEHION 1.0_20180930;版本日 期: 2018-09-30) 6. 日记卡-治疗期(版本号: VEHION 1.0_20180930;版本日 期: 2018-09-30) 7. 日记卡-随访期(版本号: VEHION 1.0_20180930;版本日 期: 2018-09-30) 8. 研究者手册(版本号: 2018093001;版本日期: 2018-09- 30) 9. 应急预案(版本号: 2018113001;版本日期: 2018-11-30)			
65	7.日记卡-随访 期:2018-09-30 8.研究者手册(30) 9.应急预案(版	期(版本号:) 版本号:2013 本号:20181	WENTON 1.0_20 8093001;版本日 13001;版本日期	180930;版本 期:2018-09- :2018-11-30)

烟台市中医医院伦理审查批件

	请遵循 GCP 原则、遵循伦理委员会批准的方案开展临床研 究,保护受试者的健康与权利。 若在三年内未启动研究,本批件作废,需重新提交伦理审 查申请。 研究过程中若变更主要研究者,对临床研究方案、知情同 意书、招募材料等的任何修改,请申请人提交修正审查申请。 如发生严重不良事件以及影响研究风险受益比的非预期不 良事件,请申请人在获知后 15 个工作日内提交严重不良事件 报告,如果是致死的不良反应,请在获知后立即提交严重不良 事件报告。 请按照伦理委员会规定的年度/定期跟踪审查频率,申请 人在截止日期前 1 个月提交研究进展报告;申办者应当向组长 单位伦理委员会提交名中心研究进展的汇总报告;当出现任何 可能显著影响试验进行或增加受试者危险的情况时,请申请人 及时向伦理委员会提交书面报告。 研究纳入了不符合纳入标准或符合排除标准的受试者,符 合中止试验规定而未让受试者退出研究,给予错误治疗或剂 量,给予方案禁止的合并用药等没有遵从方案开展研究的情 况;或可能对受试者的权益/健康以及研究的科学性造成不良 影响等违背 GCP 原则的情况,请申办者/监查员/研究者提交违 肯方案报告。 提前终止或完成临床研究,请及时提交研究完成报告。		
批件有效期	2018年12月30日—2019年12月29日		
跟踪审查频率	12个月	跟踪审查截止日期	2019年12月29日
联系人与联系方	联系人:	马静华 联系电话:	0535-6597012
式	Email:k	jk2127022@163.com	
主任委员/副主	-71	z mb	Same 1 100
任委员签字			中居
	-	烟台市中医医	院伦里夏会美盖章
1 Altonet		日月	朝: 2018年12月29月
		- The party	