PEER REVIEW HISTORY

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ARTICLE DETAILS

TITLE (PROVISIONAL)	Chinese Herbal Medicine for Diabetic Kidney Disease: A
	Systematic Review and Meta-analysis of Randomised Placebo-
	controlled Trials
AUTHORS	Zhang, La; Yang, Lihong; Shergis, Johannah; Zhang, Lei; Zhang,
	Anthony; Guo, Xinfeng; Qin, Xindong; Johnson, David; Liu,
	Xusheng; Lu, Chuan-jian; Xue, Charlie; Mao, Wei

VERSION 1 - REVIEW

REVIEWER	Mayuree Tangkiatkumjai
	Srinakharinwirot University and Thailand
REVIEW RETURNED	18-Aug-2018

GENERAL COMMENTS	This meta-analysis was well-designed and analysed. The findings
	were informative. However, there are some minor errors that need
	to revise as follows.
	1. Abstract: it should provide adverse effects of CHM in order to
	balance between efficacy and safety of CHM as mentioned in the
	objective of this study. The findings should provide I2.
	2 Introduction: From my knowledge the statement in line 31-43
	on page 5 may be exaggerated because numerous evidence and
	quidelines have reported optimal therapy to control blood sugar
	and blood pressure including optimal goals of such parameters
	RAS blockers are the first choice of medicine for DM with
	proteinuria and for advanced chronic kidney disease (CKD) with
	hypertension to slow progression of CKD
	3 Results: line 40 page 15 Is "microgram" should be " milligram"?
	Estimated GER in this study was calculated by Cockcroft-Gault
	equation whilst the KDIGO guideline recently suggests to calculate
	eGER using CKD-EPL This is because Cockcroft-Gault equation
	overestimate eGER in Asian populations. This issue may affect the
	findings. Therefore the authors should state this issue as a
	limitation of this study or the authors re-calculate eGER using
	CKD-FPI
	4 Discussion: the first paragraph should be toned down as the fair
	auality of recruited RCTs and high beterogeneity of the findings
	line 50 page 21 "the renal protective affect of CLM in vounger
	individuals and in advanced kidnov disease is less uncertain "
	"loss" should be deleted

REVIEWER	Emily Johnson
	Providence Medical Research Center, Providence Health Care,
	Spokane, WA
REVIEW RETURNED	25-Sep-2018

GENERAL COMMENTS	This is a well-constructed meta-analysis evaluating the effect of CHM for DKD. Suggestions for the authors are as follows.
	- In general, the CHM formulations, chemical constituents, doses, and routes of administration are only briefly mentioned. These are crucial details that should be added, e.g. to Supplementary Table 2, or elsewhere.
	- Please add information about the duration or follow-up period for each of the studies included in the final analysis. Some of the outcome measures take a very long time (years) to develop or improve, e.g., slowing of DKD progression. A discussion of the duration of these studies and how it may impact the authors' findings is warranted.
	- The methods need more justification for the search terms. Some of the criteria used in the Mesh search do not meet the formal diagnostic criteria for DKD and may have caused irrelevant conditions to be included in the meta-analysis.
	- Table 1, please add the criteria for participants' diabetes status (type 1 or 2, duration, etc.)
	- Figure 1, please sort the exclusion criteria in order of the number of articles (n)
	 Figure 2, please write a legend to explain the symbols used Introduction section, SGLT inhibitors should be mentioned in the discussion of potential therapeutic agents under investigation for DKD
	- Introduction page 6 line 18, please clarify what "some" means (which herbal medicines?)
	- Introduction page 6 line 50, please clarify this phrase and what study(ies) it refers to "unmasking was associated with exaggeration of intervention effects"
	- Page 8, eligibility criteria for articles: criterion #2 please exlain the selection of the 2nd eligibility criteria and how it corresponds to established diagnostic criteria for DKD
	 Page 12 line 18, what does "with exceeded albuminuria" mean? Page 13 line 23, were conflicts of interest claimed in these articles or are the authors speculating?
	- Table S5, it is probably not necessary to have the column titled "Statistical Methods" since the values in each row are the same

REVIEWER	FENG WANG
	Shanghai Jiao Tong University Affiliated Sixth People's Hospital
REVIEW RETURNED	08-Oct-2018

95%CI [-1.04, -0.08], P=0.002) or not (SMD -0.92, 95%CI [-1.35, - 0.51], P<0.0001). When CHM was used as an adjunct to ACEi/ARB, serum creatinine was lower (MD, -4.02 μmol/L; 95%CI [-7.81, -0.23], P=0.15) and glomerular filtration rate was improved (MD, 5.8 mL/min; 95%CI [2.42, 10.14], P=0.001) in the CHM group	GENERAL COMMENTS	This manuscript mainly focuses on DKD.From 7,255 reports retrieved, 20 eligible studies involving 2,719 DKD patients were included. CHM was associated with greater reduction of albuminuria than placebo, regardless of whether angiotensin converting enzyme inhibitors (ACEi) or angiotensin receptor blockers (ARB) were concurrently administered (SMD -0.56,
		95%CI [-1.04, -0.08], P=0.002) or not (SMD -0.92, 95%CI [-1.35, - 0.51], P<0.0001). When CHM was used as an adjunct to ACEi/ARB, serum creatinine was lower (MD, -4.02 μmol/L; 95%CI [-7.81, -0.23], P=0.15) and glomerular filtration rate was improved (MD, 5.8 mL/min; 95%CI [2.42, 10.14], P=0.001) in the CHM group

and mortality were uncertain due to low event rates. CHM appeared to be well-tolerated, with low reported rates of adverse events.With moderate to low quality evidence, CHM may have beneficial effects on renal function and albuminuria beyond that afforded by conventional treatment in adults with DKD. Further well-conducted, adequately powered trials are warranted to confirm the long-term effect of CHM. This manuscript is interesting. However, I have some concerns: 1. The introduction should be more detailed. One citation is recommended: PMID: 28404881
2. The discussion section should be improved.
3. The limitations should be stated clearly.

REVIEWER	Tian, Jinhui Lanzhou University
REVIEW RETURNED	08-Nov-2018

GENERAL COMMENTS	Please consider the following problem:
	1.the search term is enough,for example,Chinese Herbal
	Medicine,please consider the drug name;
	2.the author combined the different Chinese herbal
	medicine, which led to the clinical heterogeneity, how to deal with
	this.at the same time, how to guide the clicial practice.

REVIEWER	Irene SL Zeng
	iStatDome registered online datalab and Middlemore Hospital
	Counties of Manukau District Health Board New Zealand
REVIEW RETURNED	14-Nov-2018

GENERAL COMMENTS	Congratulation for all authors having completed such a significant work. My comments and suggestions are listed as followed: 1)In method, please explain when and why use SMD verse MD. 2)In tables, please include number or event/mortality or event/mortality rate in each study where available. 3)In all results, there are reported I square which is equivalent to 0%. Some of these are due to small number of studies (i.e. 2).
	please make comments about this in the discussion.

VERSION 1 – AUTHOR RESPONSE

Reviewer 1	
2.1 Abstract: it should provide adverse effects of CHM in order to balance between efficacy and safety of CHM as mentioned in the objective of this study. The findings should provide I2.	2.1 As suggested, the adverse effects of CHM were added in the results section in the Abstract, it states "The reported adverse events in CHM groups included digestive disorders, elevated liver enzyme levels,
2.2 Introduction: From my knowledge, the statement in line 31-43 on page 5 may be exaggerated because numerous evidence and guidelines have reported optimal therapy to control blood sugar and blood	infection, anemia, hypertension and subarachnoid hemorrhage, but the report rates were low, unlikely related to intervention, and similar to control groups.".

pressure, including opt	timal goals of such	The I ² of each meta-analysis has been
parameters. RAS block	kers are the first	added.
choice of medicine for	DM with proteinuria	2.2 Thank you for your comment. We have
and for advanced chro	nic kidney disease	revised the 2 nd paragraph in the Introduction
(CKD) with hypertension	on to slow	to better summarise the current knowledge
progression of CKD.		of DKD treatments.
2.3 Results: line 40, page	15 ls "microgram"	2.3 Thank you for the correction, we have
should be "milligram"?	Estimated GFR in	updated the text. As for the impact of
this study was calculat	ed by Cockcroft-	Cockcroft-Gault equation, we address this
Gault equation whilst the	he KDIGO guideline	issue in the eGFR results section, it states
recently suggests to al	culate eGFR using	"It should be noted that Cockcroft-Gault
CKD-EPI. This is beca	use Cockcroft-Gault	equation may overestimate eGFR, leading
equation overestimate	eGFR in Asian	to 10-20% higher value in pooled estimation
populations. This issue	e may affect the	of eGFR than the actual eGFR and these
findings. Therefore the	authors should state	positive results should be interpreted
this issue as a limitatio	on of this study or the	cautiously". We also address this issue in
authors re-calculate eC	GFR using CKD-EPI.	the limitations section of the Discussion, it
2.4 Discussion: the first pa	ragraph should be	states "In addition, the positive effect of
toned down as the fair	quality of recruited	CHM in eGFR outcomes is dominated by a
RCTs and high heteroo	geneity of the	study using Cockcroft-Gault equation [64.8%
findings. line 50, page	21, "the renal	weight], leading to possible overestimation
protective effect of CH	M in younger	of eGFR value."
individuals and in adva	anced kidney disease	2.4 The 1 st paragraph in the discussion has
is less uncertain." "less	s" should be deleted.	been revised as suggested, and the "less" in
		line 50, page 21 has been deleted.
Reviewer 2		
3.1 In general, the CHM fo	ormulations, chemical	3.1 In this systematic review, we only included
constituents deses or	nd routes of	aral CHM studios (montioned as inclusion
constituents, uoses, ai		oral Crim studies (mentioned as inclusion
administration are only	briefly mentioned.	criteria in the methods section). We agree that
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administration are only These are crucial detain added, e.g. to Supplen elsewhere.	v briefly mentioned. ils that should be nentary Table 2, or	criteria in the methods section). We agree that the chemical compositions and doses of CHM are important. Thus, we provide the name of CHM preparations, the form (decoction, granule,
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- 3.6 Figure 2, please write a legend to explain the symbols used
- 3.7 Introduction section, SGLT inhibitors should be mentioned in the discussion of potential therapeutic agents under investigation for DKD
- 3.8 Introduction page 6 line 18, please clarify what "some" means (which herbal medicines?)
- 3.9 Introduction page 6 line 50, please clarify this phrase and what study(ies) it refers to "unmasking was associated with exaggeration of intervention effects"
- 3.10 Page 8, eligibility criteria for articles: criterion #2 please explain the selection of the 2nd eligibility criteria and how it corresponds to established diagnostic criteria for DKD
- 3.11 Page 12 line 18, what does "with exceeded albuminuria" mean?
- 3.12 Page 13 line 23, were conflicts of interest claimed in these articles or are the authors speculating?
- 3.13 Table S5, it is probably not necessary to have the column titled "Statistical Methods" since the values in each row are the same

imprecision of the estimated effect and low certainty with regard to long-term benefit and effect on renal function and clinical outcomes". 3.3 We used a set of broad search terms (such as albuminuria and proteinuria) rather than DKD synonym alone to avoid missing relevant studies. Then we screened for eligible studies in a double check style based on predefined criteria in case of including non-DKD studies. All participants of included studies in this review fulfilled the clinical diagnosis of DKD.

3.4 As suggested, the type of diabetes is added in Table 1.

3.5 Figure 1 is revised as suggested.

3.6 A legend for Figure 2 is added.

3.7 Details about SGLT2 inhibitors have been added at the end of 2^{nd} paragraph in the Introduction.

3.8 In the 3rd paragraph, line 7 in the Introduction, we clarified that:" Multi-ingredient herbal decoctions and manufactured products of Abelmoschi Corolla and Cordyceps have been recommended for patients with DKD in the practice guidelines of Chinese medicine". 3.9 To clarify, we revised the sentence as "In recent years, there have been a growing number of clinical trials and systematic reviews of CHM for DKD but not of placebo-controlled trials.". 3.10 The 2nd eligibility criteria is designed based on the DKD clinical diagnosis criteria recommended either in the international practice guidelines or those used in China. To clarify, we revised the sentence as below: "...included primary diabetes adults with persistent albuminuria/proteinuria, which was defined as an albumin excretion rate (AER) more than 20 µg/min, an albumin-to-creatinine ratio (ACR) larger than 30 mg/g or 24-hour proteinuria over 0.5 g/d (the overt DKD stage defined by Mogensen and used in DKD diagnostic criteria in China)".

3.11 It refers to albuminuria. We deleted the "exceeded" in text.

3.12 Since the pharmaceutical company employees were listed as co-authors without clarifying their roles in the trial, we judged the risk of conflicts of interest at high. To clarify, we revised the sentence as: "Two studies included pharmaceutical industry employees as coauthors without statements regarding their roles in the study, thereby these two trials were

	judged at high risk of bias in terms of potential conflicts of interest". 3.13 Thank you for the suggestion. The column titled "Statistical Methods" in Table S5 is now removed.
Reviewer 3 4.1 The introduction should be more detailed. One citation is recommended: PMID: 28404881 4.2 The discussion section should be improved. 4.3 The limitations should be stated clearly.	 4.1 Thank you for your comments. We have revised the introduction to provide background knowledge of DKD treatment options and challenges, the developmental value of CHM, and the reasons of systematic reviewing the clinical evidence of CHM. 4.2 Thank you for your suggestion. We added the 2nd paragraph in Discussion to provide more details and to discuss the findings from a clinical perspective. 4.3 As suggested, we discussed the limitations of this review from two aspects. The 6th paragraph addresses the issues that may affect the internal validity, such as high heterogeneity, small number of included studies etc. The 7th paragraph discusses the external validity of findings, including different DKD populations and varied CHM ingredients.
Reviewer 4 5.1 the search term is enough, for example, Chinese Herbal Medicine, please consider the drug name; 5.2 the author combined the different Chinese herbal medicine, which led to the clinical heterogeneity, how to deal with this.at the same time, how to guide the clinical practice.	 5.1 Thank you for your comments. We agree that it would be more comprehensive if we use the herbs' names and formulae names as search terms. However, since the scope of this systematic review is oral CHM regardless of ingredients, it is impossible to include all herbs/formulae names beforehand. Therefore, we learn from the search strategy in the Cochrane systematic reviews, adopting the terms and synonym represented the concept of "Chinese herbal medicine" to include relevant studies as much as possible. 5.2 Guided by the treatment principles of individualised prescription in Chinese medicine theory, the herbal ingredients of formulae are often diverse in clinical practice. Thus, the aim of this systematic review is to evaluate the overall efficacy and safety of CHM for DKD, regardless the differences of herbal compositions. We incorporate the heterogeneity by using the random effects model in meta-analysis. In addition, subgroup analysis based on formulae was pre-designed and conducted. Unfortunately, due to the small number of included studies used the same CHM interventions, the evidence of efficacy and safety of each herbal formula is inconclusive.

Reviewer 5	
6.1 In method, please explain when and why	6.1 Thank you for your suggestion. We explain
use SMD verse MD.	this in the Data synthesis and analysis sections
6.2 In tables, please include number or	as "SMD was used in the meta-analysis of
event/mortality or event/mortality rate in each	albuminuria and proteinuria outcomes due to the
study where available.	different scales used in the included studies
6.3 In all results, there are reported I square	such as microgram per minute (µg/min),
which is equivalent to 0%. Some of these are	milligram to gram (mg/g) and milligram per day
due to small number of studies (i.e. 2), please	(mg/24 hours).".
make comments about this	6.2 Only one study (Li et.al 2012) reported
in the discussion.	mortality and composite renal outcome events,
	which is listed in Table 1 and Table 3.
	6.3 Thank you for your suggestion. We consider
	it as one of the limitations and we added the
	following statements in the 6 th paragraph, line 5
	in Discussion: "Even meta-analyses with low
	heterogeneity may not be reliable because there
	were only a very small number of included
	studies in the subgroup analyses (less than or
	equal to three studies in each subgroup).".

VERSION 2 – REVIEW

REVIEWER	Emily Cox
	Providence Health & Services, Spokane, WA, USA
REVIEW RETURNED	11-Feb-2019

GENERAL COMMENTS	The revised manuscript addresses my concerns. I recommend
	acceptance.

REVIEWER	Irene SL Zeng iSTATDOM online datalab and Counties Manukau Health
REVIEW RETURNED	21-Feb-2019

GENERAL COMMENTS	Thank you, the authors have addressed my comments in the
	method.