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Table S1. Electronic search strategy

Database	Search terms
Medline	1. exp Kidney Failure, Chronic/ or exp Renal Insufficiency/ or exp
	Renal Insufficiency, Chronic/
	2. exp Proteinuria/ or exp Albuminuria/ or microalbuminuria.tw.
	3. 1 or 2
	4. exp Bicarbonates/ or exp Sodium Bicarbonate/ or exp Alkalies/ or
	alkali therapy.tw. or alkalinisation.tw.
	5. exp Acidosis/ or exp Acid-Base Imbalance/ or metabolic acidosis.tw.
	6. 4 or 5
	7. exp Clinical Trial/ or exp Controlled Clinical Trial/ or exp
	Randomized Controlled Trials/
	8. 3 and 6 and 7
Embase	1. exp chronic kidney disease/ or exp chronic kidney failure/
	2. exp albuminuria/ or exp proteinuria/ or exp microalbuminuria/
	3. 1 or 2
	4. exp bicarbonate blood level/ or exp bicarbonate/ or exp
	alkalinization/ or exp alkalinizing agent/ or Sodium Bicarbonate.tw.
	or alkali therapy.tw.
	5. exp acidosis/ or exp metabolic acidosis/ or exp "disorders of acid
	base balance"/
CENTED A I	
CENTRAL	
	•
	1
CENTRAL	 4 or 5 exp controlled clinical trial/ or exp clinical trial/ or exp controlled study/ or exp randomized controlled trial/ 3 and 6 and 7 exp Kidney Failure, Chronic/ or exp Renal Insufficiency/ or exp Renal Insufficiency, Chronic/ or exp Kidney Transplantation/ or Renal Dialysis/ or exp Renal Replacement Therapy/ exp Proteinuria/ or exp Albuminuria/ or microalbuminuria.tw. 1 or 2 exp Bicarbonates/ or exp Sodium Bicarbonate/ or exp Alkalies/ or alkali therapy.tw. or alkalinisation.tw. exp Acidosis/ or exp Acid-Base Imbalance/ or metabolic acidosis.tw. 4 or 5 3 and 6

Table S2. GRADE assessment of certainty of evidence

Table outlining the certainty of the evidence according to the GRADE assessment tool.

			Certainty asses	Summary of findings									
№ of	Risk of					Overall	Study ev	ent rates	Relative		pated absolute effects		
participants (studies)	bias	Inconsistency	Indirectness	Imprecision	Other considerations	certainty of evidence	With Control	With Intervention	effect (95% CI)	Risk with Control	Risk difference with Intervention		
	RCTs comparing bicarbonate therapy to placebo or no medication in delaying CKD progression												
Change in K	idney Fun	ction (follow up	o: median 12 m	onths; assesse	d with: eGFR ch	ange / CrCl ch	nange)						
2405 (14 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	-	-	-	-	SMD 0.26 SD higher (0.13 higher to 0.40 higher)		
Change in eC	GFR (follo	w up: median 1	2 months; asse	essed with: cha	nge in eGFR)								
1505 (11 RCTs)	serious ^a	serious ^b	not serious	serious ^c	none	⊕○ ○ ○ VERY LOW	-	-	-	-	WMD 2.63 mL/min/1.73 higher (0.70 higher to 4.55 higher)		
Change in cr	eatinine cl	earance (follow	v up: median 1	2 months; asse	ssed with: chang	ge CrCl)							
1074 (3 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	-	-	-	-	WMD 5.77 mL/min/1.73 higher (3.56 higher to 7.99 higher)		
Change in se	rum creat	inine (follow up	o: median 12 m	onths; assesse	d with: serum cr	eatinine)							

Certainty assessment								Summary of findings					
№ of	Risk of					Overall	Study ev	ent rates	Relative		pated absolute effects		
participants (studies)	bias	Inconsistency	Indirectness	Imprecision	Other considerations	certainty of evidence	With Control	With Intervention	effect (95% CI)	Risk with Control	Risk difference with Intervention		
732 (6 RCTs)	serious ^a	serious ^b	not serious	very serious ^c	none	⊕○ ○ ○ VERY LOW	-	-	-	-	WMD 0.2 µmol/L lower (0.46 lower to 0.06 lower)		
progression t	to kidney f	ailure (follow u	ıp: median 12	months; assess	ed with: number	of events initi	ation of RRT)						
2371 (14 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	154/1095 (14.2%)	81/1201 (6.7%)	RR 0.53 (0.32 to 0.89)	140 per 1,000	67 fewer per 1,000 (97 fewer to 16 fewer)		
Rapid declin	e of kidney	y function (follo	ow up: median	12 months; as:	sessed with: nun	iber of events	with decrease i	n eGFR >3mL	/min/1.73 per	r year)			
1481 (7 RCTs)	serious ^a	serious ^b	not serious	not serious	none	⊕⊕⊖⊖ LOW	156/705 (22.1%)	50/714 (7.0%)	RR 0.32 (0.20 to 0.52)	221 per 1,000	150 fewer per 1,000 (177 fewer to 106 fewer)		
Change in pr	oteinuria	(follow up: med	dian 12 months	s; assessed with	ı: urinary protei	n estimation)							
854 (6 RCTs)	serious ^a	not serious	not serious	very serious ^c	none	⊕○ ○ ○ VERY LOW	-	-	-	-	SMD 0.09 SD lower (0.27 lower to 0.09 higher)		

			Certainty asses	ssment				Sumn	nary of findi	ngs	
№ of	Risk of				Other	Overall	Study ev	ent rates	Relative	Anticipated absolute effects	
participants (studies)	bias	Inconsistency	Indirectness	Imprecision	considerations	certainty of evidence	With Control	With Intervention	effect (95% CI)	Risk with Control	Risk difference with Intervention
2103 (13 RCTs)	serious ^a	serious ^b	not serious	serious ^c	none	⊕○ ○ ○ VERY LOW	-	-	1	-	WMD 2.59 mmol/L higher (1.51 higher to 3.66 higher)
Change in sy	stolic bloo	d pressure (foll	low up: mediar	n 12 months; a	ssessed with: sys	tolic blood pre	ssure)				
2250 (12 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	-	-	-	-	WMD 0.57 mmHg lower (2.32 lower to 1.18 higher)
Change in di	iastolic blo	od pressure (fo	llow up: media	an 12 months;	assessed with: ch	ange in DBP n	nmHg)				
2098 (10 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	-	-	-	-	WMD 0.88 mmHg higher (0.61 lower to 2.38 higher)
Worse blood	pressure ((follow up: med	lian 12 months	; assessed with	: number of eve	nts)					
1383 (5 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	53/249 (21.3%)	75/339 (22.1%)	RR 1.36 (1.05 to 1.77)	213 per 1,000	77 more per 1,000 (11 more to 164 more)

	Certainty assessment								Summary of findings					
№ of	Risk of					Overall	Study ev	Study event rates		-	pated absolute effects			
participants (studies)	bias	Inconsistency	Indirectness	Imprecision	Other considerations	certainty of evidence	With Control	With Intervention	effect (95% CI)	Risk with Control	Risk difference with Intervention			
818 (6 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	92/355 (25.9%)	109/445 (24.5%)	RR 1.16 (0.90 to 1.50)	259 per 1,000	132 more per 1,000 (16 more to 303 more)			
Change in w	eight (follo	ow up: median	12 months; ass	essed with: we	ight in kg)									
1662 (8 RCTs)	serious ^a	not serious	not serious	serious ^c	none	⊕⊕⊖⊖ LOW	-	-	-	-	WMD 0.11 kg lower (0.93 lower to 0.70 higher)			
Admission v	vith heart f	ailure (follow u	p: median 12 ı	months; assesse	ed with: number	of events)				•				
708 (5 RCT)	serious ^a	not serious	not serious	very serious ^e	none	⊕○ ○ ○ VERY LOW	3/310 (1.0%)	5/394 (1.3%)	RR 1.19 (0.30 to 4.67)	52 per 1,000	2 more per 1,000 (7 fewer to 36 more)			
Mortality (fo	ollow up: n	nedian 12 mont	hs; assessed wi	ith: number of	deaths)									
1974 (9 RCT)	serious ^a	not serious	not serious	very serious ^e	none	⊕○ ○ ○ VERY LOW	38/902 (4.2%)	30/1011 (3.0%)	RR 0.81 (0.39 to 1.68)	33 per 1,000	8 fewer per 1,000 (26 fewer to 29 more)			

CI: Confidence interval; RR: Risk ratio

Explanations

- a. Unclear or high risk of biasb. High heterogeneityc. Wide confidence interval

Table S3. Individual study bias assessment

Table outlining sources of bias for individual studies included in our meta-analysis.

Study	Year	Random sequence generation	Allocation concealment	Bliding of participants	Blinding of investigators	Blinding of outcome assessors	Incomplete outcome data	Selective outcome reporting	Other bias
Mathur	100000000000000000000000000000000000000	Unclear	Unclear	Low	High	Unclear	Low		Low
de Brito-Ashurst	2009		Low	High	High	Low	Low		Low
Disthabanchong	2010	Unclear	Unclear	High	High	Unclear	Low	Transport	Low
Mahajan	2010		Unclear	Low	Low	Low	Low	Unclear	Low
Jeong	2014	Unclear	Unclear	High	High	Unclear	Low	Unclear	Low
Bellasi	2016	Unclear	Unclear	High	High	Unclear	Low	Low	Low
Yan	2017	Unclear	Unclear	Low	High	Unclear	Low	Unclear	Low
Dubey	2018	Low	Low	High	High	Low	Low	Unclear	Low
Alva	2019	Unclear	Unclear	High	High	High	Low	Unclear	Low
Di Iorio	2019	Unclear	High	High	High	High	Low	Low	Low
Goraya	2020	Low	High	High	High	High	Low	Low	Low
Witham	2020	Low	Low	Low	Low	Low	High	High	Low
Melamed	2020	Low	Low	Low	Low	Low	High	Unclear	Low
Raphael	2020	Low	Low	Low	Low	Unclear	Low	Unclear	Low
Raphael	2020	Low	Low	Low	Low	Unclear	Low	Unclear	Low

Figure S1. Subgroup analysis of the effect of bicarbonate therapy on change in kidney function 1: according to the use of placebo or no study medication in the control arm.

Forest plot showing subgroup analysis according to the use of placebo or no study medication on the effect of bicarbonate therapy on the change in kidney function. Interaction p-value 0.22.

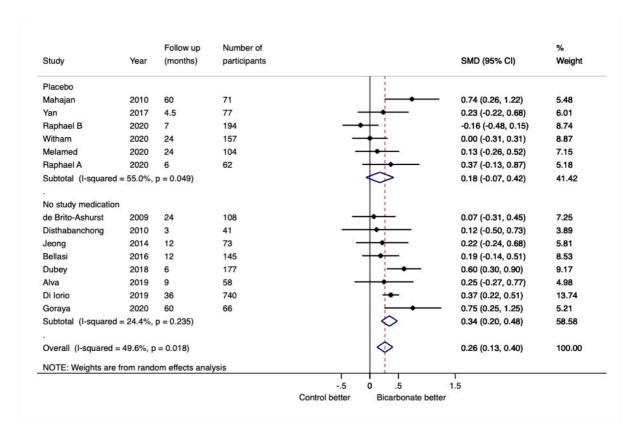


Figure S2. Subgroup analysis of the effect of bicarbonate therapy on the change in kidney function 2: according to follow-up time.

Forest plot showing subgroup analysis according to follow up time less or more than 12 months on the effect of bicarbonate therapy on the change in kidney function. Interaction p-value 0.45.

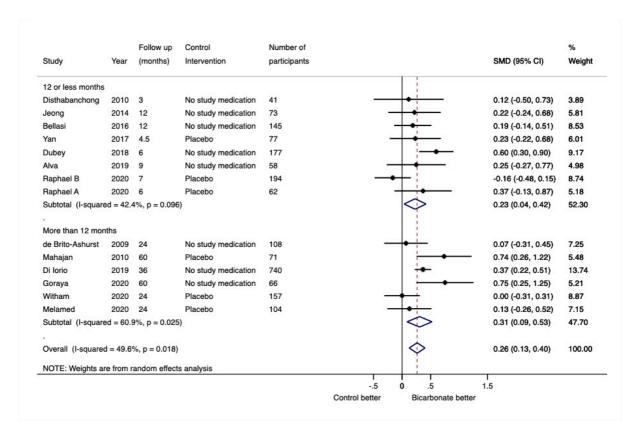


Figure S3. Subgroup analysis of the effect of bicarbonate therapy on the change in kidney function 3: according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on the change in kidney function. Interaction p-value 0.03.

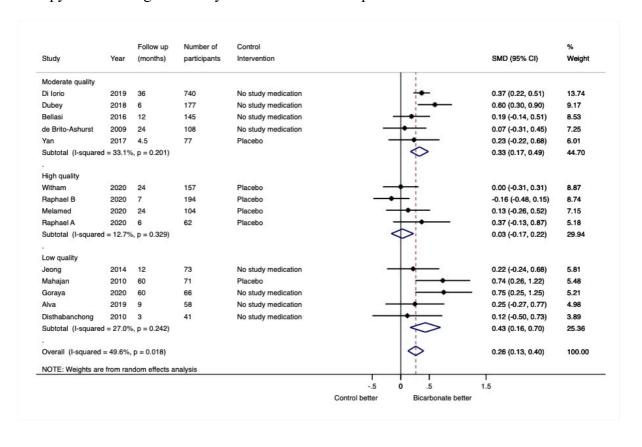


Figure S4. Cumulative metanalysis of the effect of bicarbonate therapy on the change in kidney function

Forest plot showing cumulative effect over time of bicarbonate therapy on the change in kidney function (measured by eGFR or CrCl)

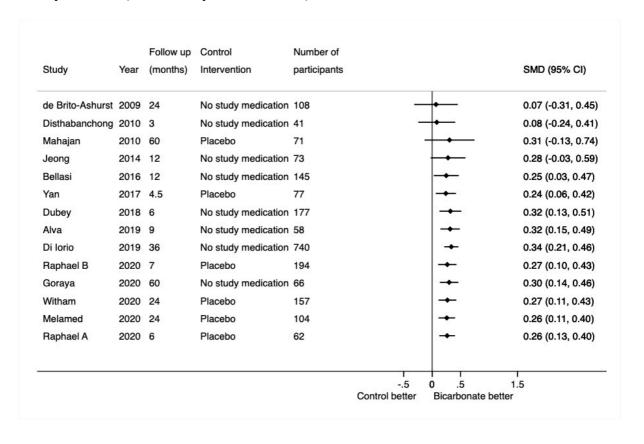


Figure S5. Effect of bicarbonate therapy on change in eGFR

Forest plot showing the effect of bicarbonate therapy on change in eGFR (mL/min/1.73 m2) from baseline to last measurement

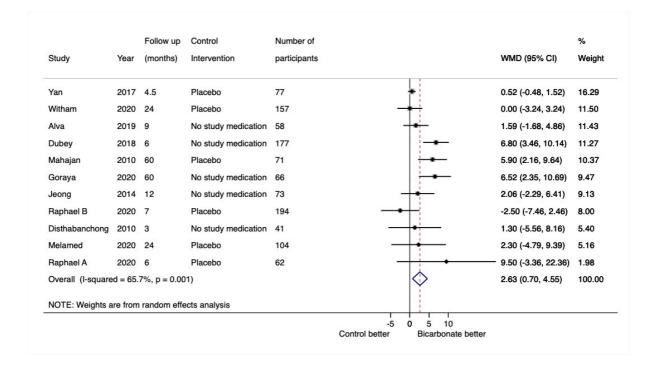


Figure S6. Effect of bicarbonate therapy on change in creatinine clearance

Forest plot showing the effect of bicarbonate therapy on change in creatinine clearance from baseline to last measurement

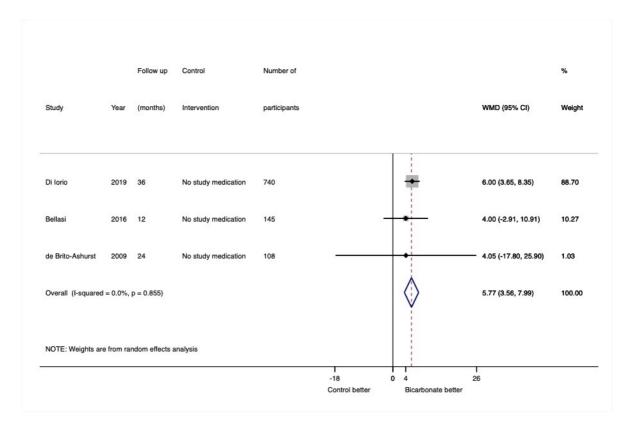


Figure S7. Subgroup analysis of the effect of bicarbonate therapy on eGFR (mL/min/1.73m2)1: according to the use of placebo or no study medication in the control arm.

Forest plot showing subgroup analysis according to the use of placebo or no study medication on the effect of bicarbonate therapy on the change in eGFR. Interaction p-value 0.04.

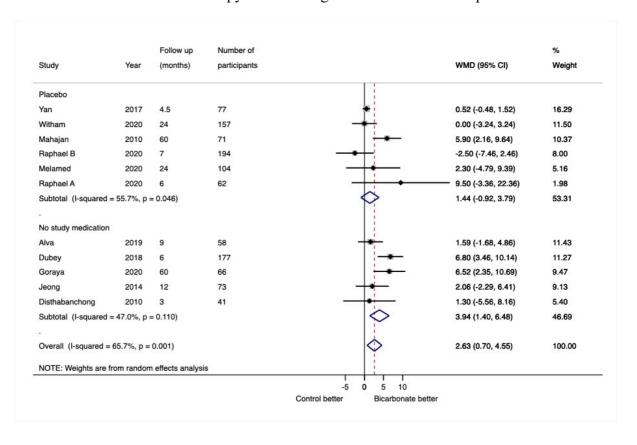


Figure S8. Subgroup analysis of the effect of bicarbonate therapy on eGFR (mL/min/1.73m2)2: according to follow-up time.

Forest plot showing subgroup analysis according to follow up time less or more than 12 months on the effect of bicarbonate therapy on the change in eGFR. Interaction p-value 0.03

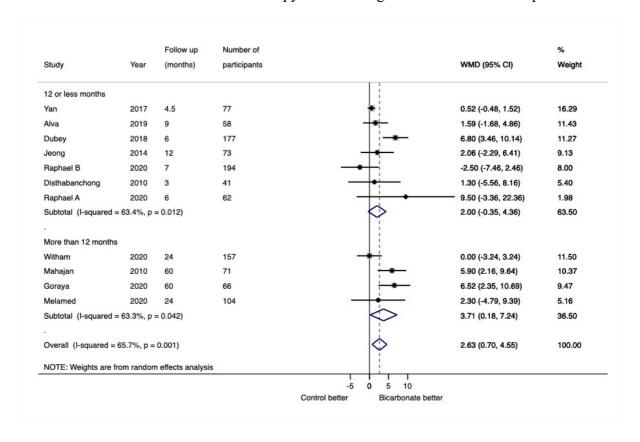


Figure S9. Subgroup analysis of the effect of bicarbonate therapy on eGFR (mL/min/1.73m2)3: according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on the change in eGFR. Interaction p-value 0.19

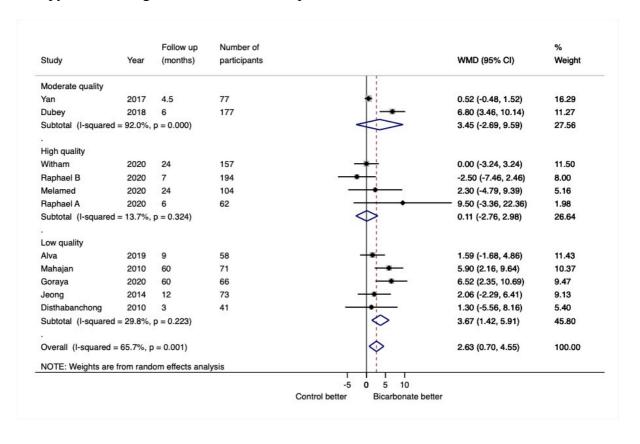


Figure S10. Effect of bicarbonate therapy on change in serum creatinine

Forest plot showing the effect of bicarbonate therapy on change in serum creatinine (mg/dL) from baseline to last measurement

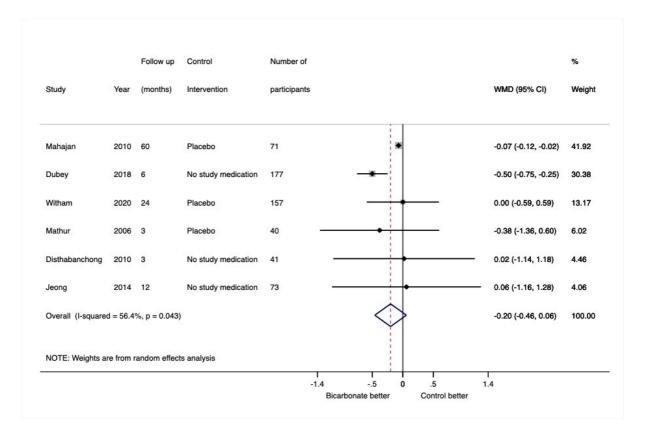


Figure S11. Subgroup analysis of the effect of bicarbonate therapy on progression to kidney failure 1: according to the use of placebo or no study medication in the control arm.

Forest plot showing subgroup analysis according to the use of placebo or no study medication on the effect of bicarbonate therapy on progression to kidney failure. Interaction p-value 0.04.

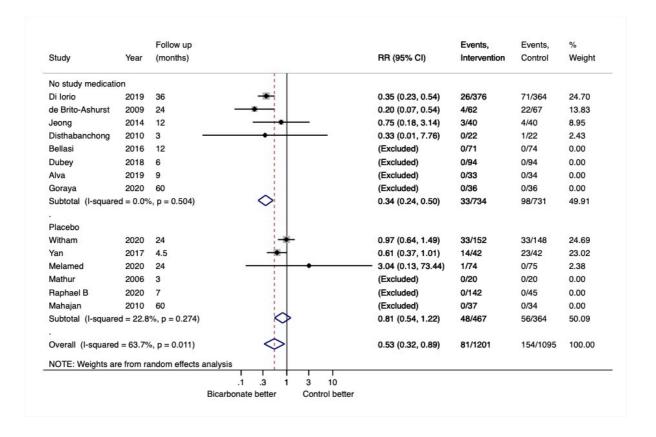


Figure S12. Subgroup analysis of the effect of bicarbonate therapy on the progression to kidney failure 2: according to follow-up time.

Forest plot showing subgroup analysis according to follow up time less or more than 12 months on the effect of bicarbonate therapy on the progression to kidney failure. Interaction p-value 0.73.

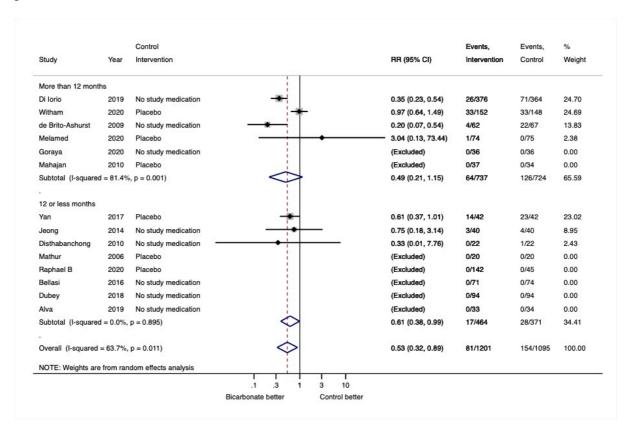


Figure S13. Subgroup analysis of the effect of bicarbonate therapy on the progression to kidney failure 3: according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on the progression to kidney failure. Interaction p-value 0.24.

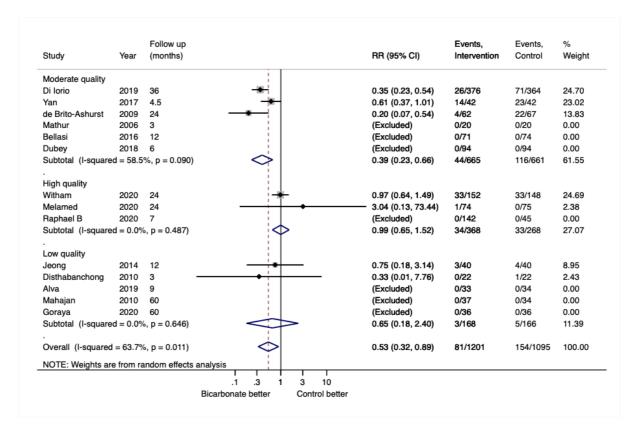


Figure S14. Effect of bicarbonate therapy on rapid decline in kidney function

Forest plot showing the effect of bicarbonate therapy on change in rapid decline in kidney function

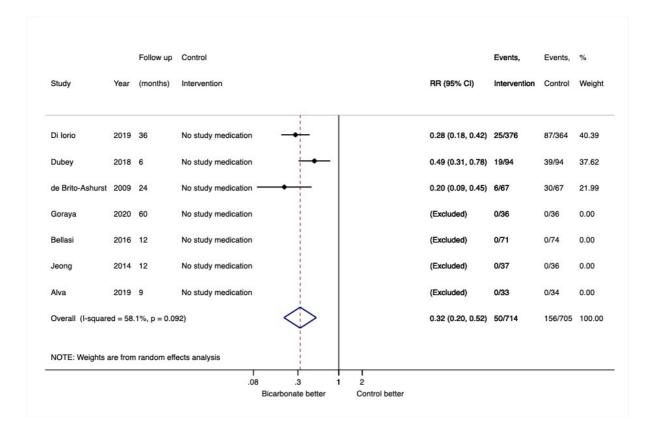


Figure S15. Effect of bicarbonate therapy on change in proteinuria

Forest plot showing the effect of bicarbonate therapy on change in proteinuria from baseline to last measurement

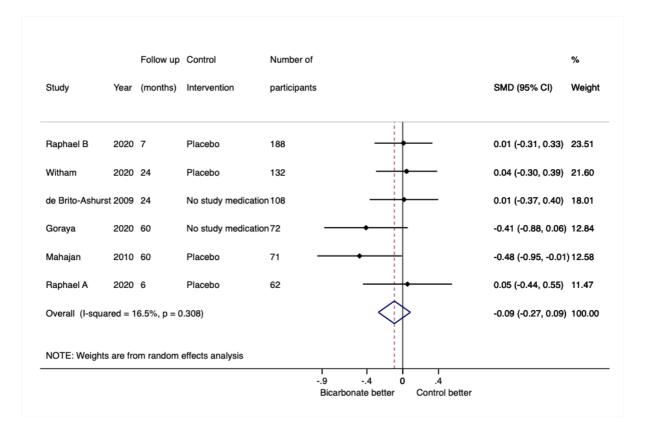


Figure S16. Effect of bicarbonate therapy on change in serum bicarbonate

Forest plot showing the effect of bicarbonate therapy on change in serum bicarbonate (mmol/L) from baseline to last measurement

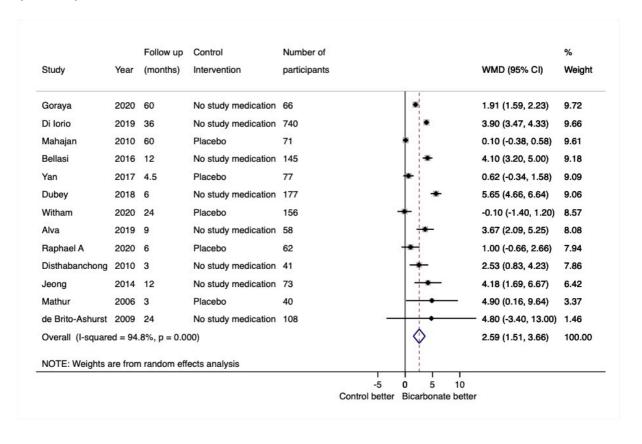


Figure S17. Subgroup analysis of the effect of bicarbonate therapy on serum bicarbonate (mmol/L)1: according to the use of placebo or no study medication in the control arm.

Forest plot showing subgroup analysis according to the use of placebo or no study medication on the effect of bicarbonate therapy on change in serum bicarbonate. Interaction p-value 0.001.

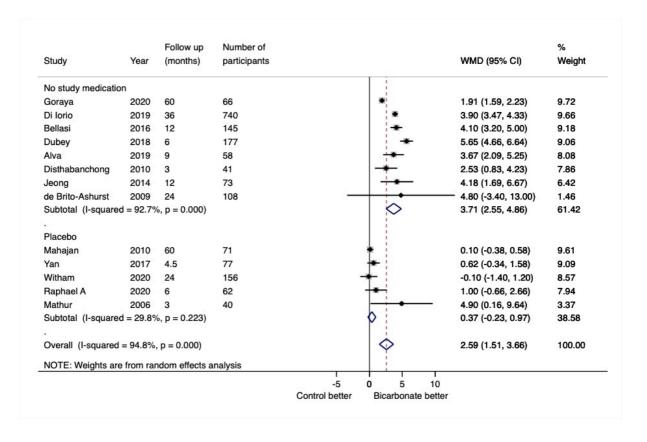


Figure S18. Subgroup analysis of the effect of bicarbonate therapy on serum bicarbonate (mmol/L) 2: according to follow-up time.

Forest plot showing subgroup analysis according to follow up time less or more than 12 months on the effect of bicarbonate therapy on change in serum bicarbonate. Interaction p-value 0.1

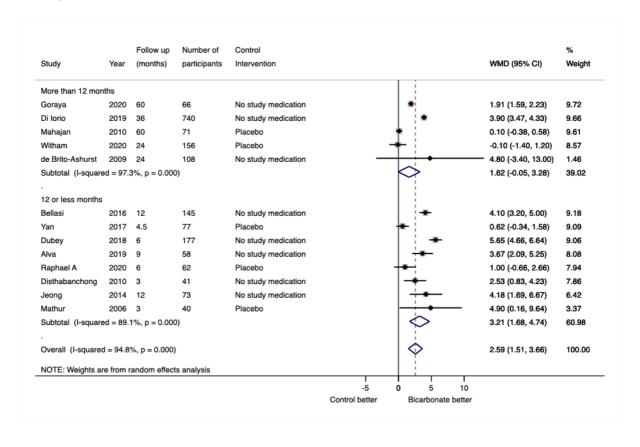


Figure S19. Subgroup analysis of the effect of bicarbonate therapy on serum bicarbonate (mmol/L) 3: according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on change in serum bicarbonate. Interaction p-value 0.58

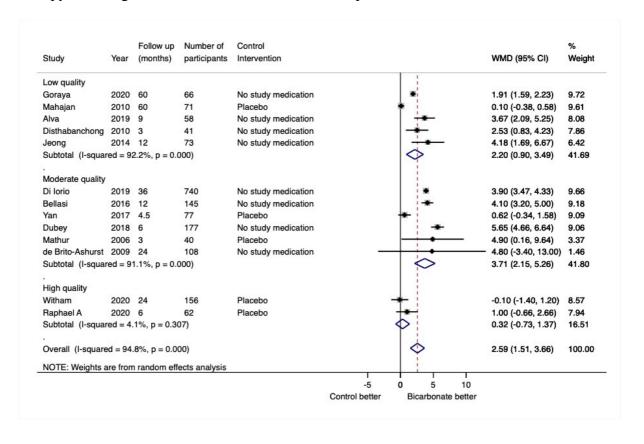


Figure S20. Effect of bicarbonate therapy on change in systolic blood pressure

Forest plot showing the effect of bicarbonate therapy on change in systolic blood pressure (mm Hg) from baseline to last measurement

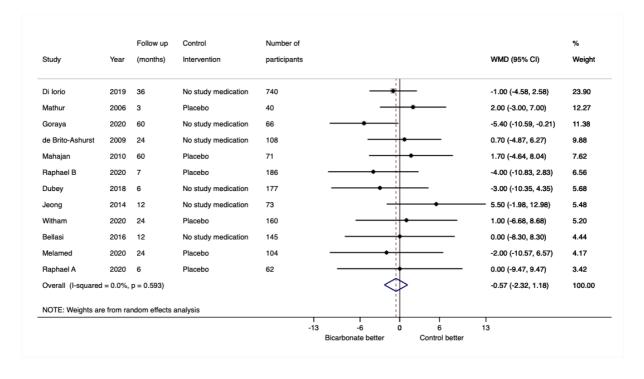


Figure S21. Effect of bicarbonate therapy on change in diastolic blood pressure

Forest plot showing the effect of bicarbonate therapy on change in diastolic blood pressure (mm Hg) from baseline to last measurement

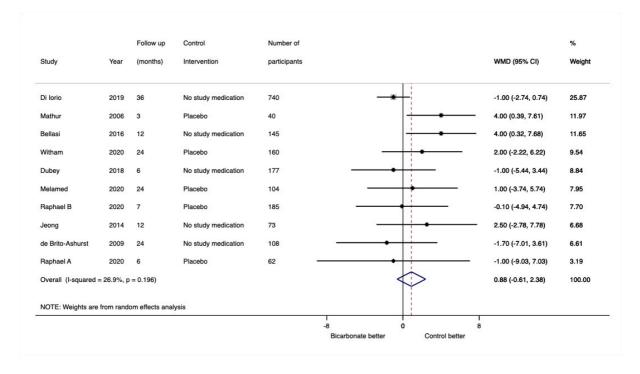


Figure S22. Effect of bicarbonate therapy on worsening of blood pressure

Forest plot showing the effect of bicarbonate therapy on worsening of blood pressure

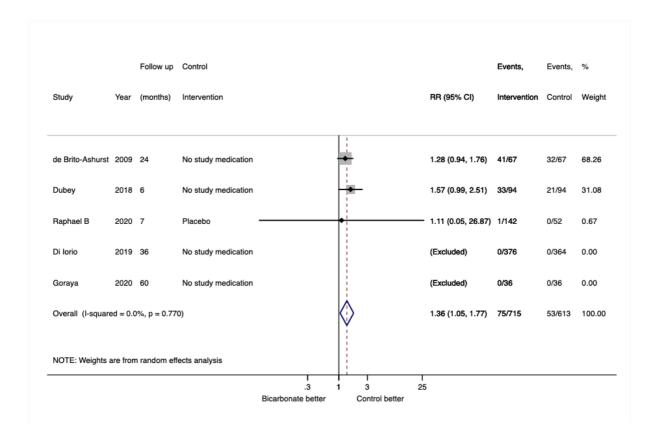


Figure S23. Effect of bicarbonate therapy on worsening of edema

Forest plot showing the effect of bicarbonate therapy on worsening of edema

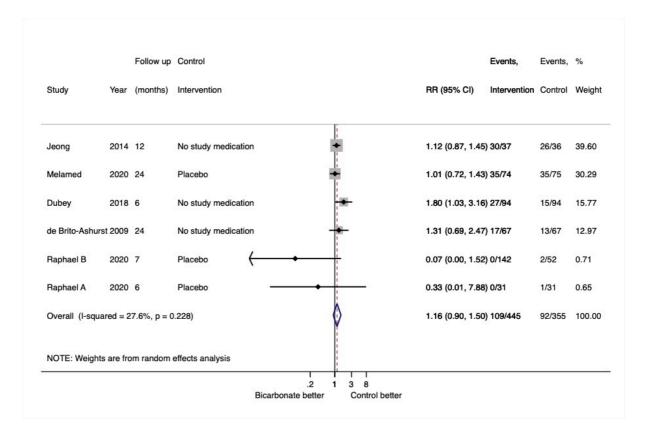


Figure S24. Effect of bicarbonate therapy on change in body weight

Forest plot showing the effect of bicarbonate therapy on change in body weight (kg) from baseline to last measurement

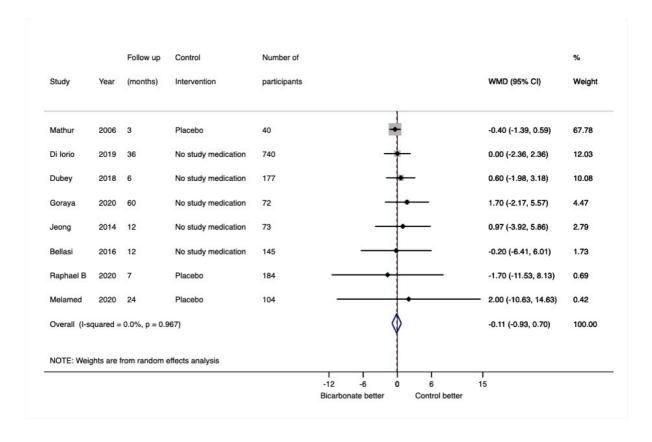


Figure S25. Effect of bicarbonate therapy on all-cause mortality

Forest plot showing the effect of bicarbonate therapy on change in all cause mortality

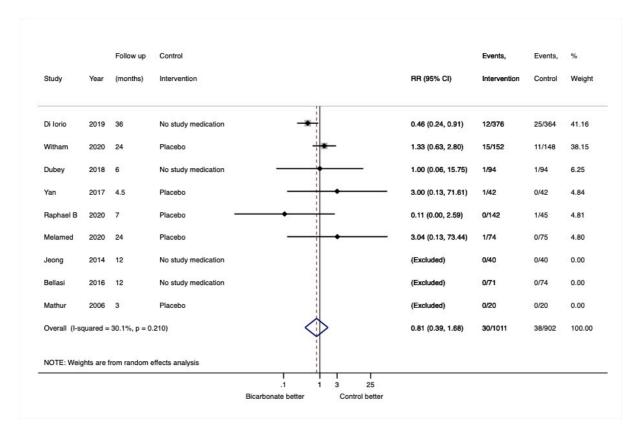
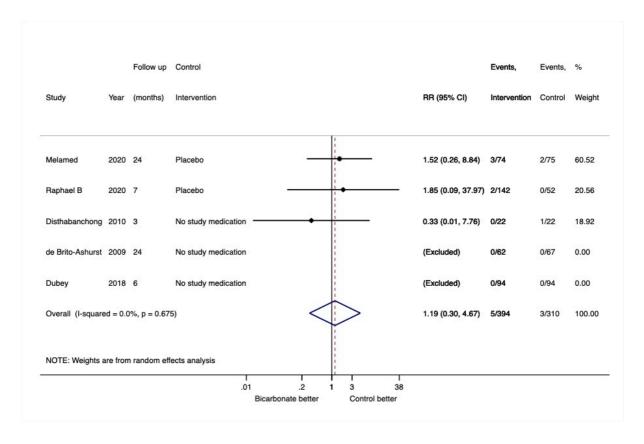
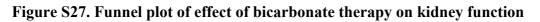


Figure S26. Effect of bicarbonate therapy on admissions for heart failure

Forest plot showing the effect of bicarbonate therapy on change in hospital admission rate for heart failure





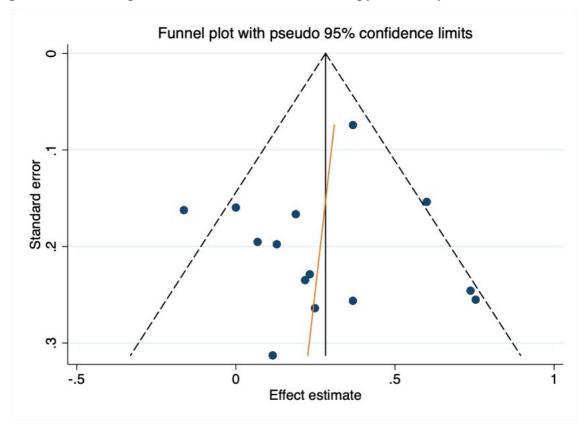
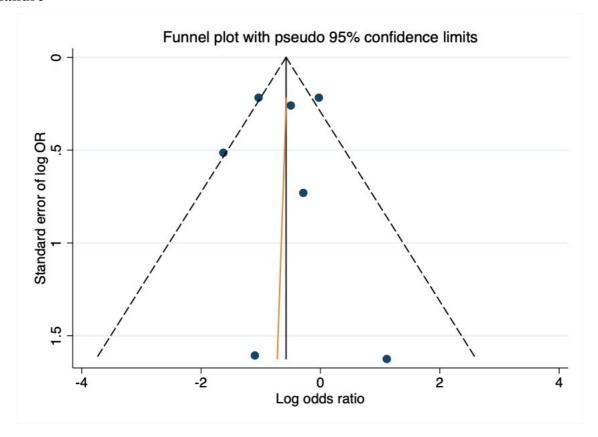
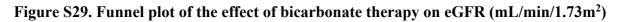
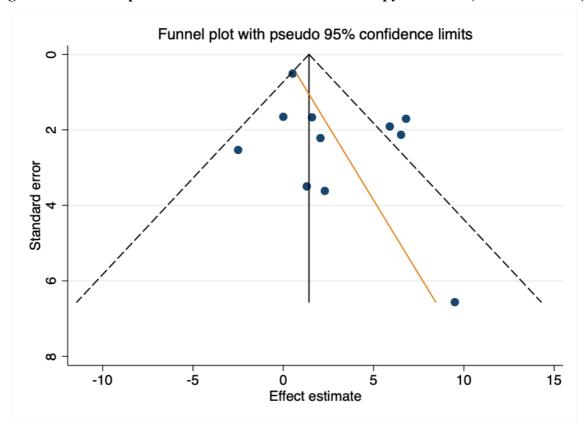


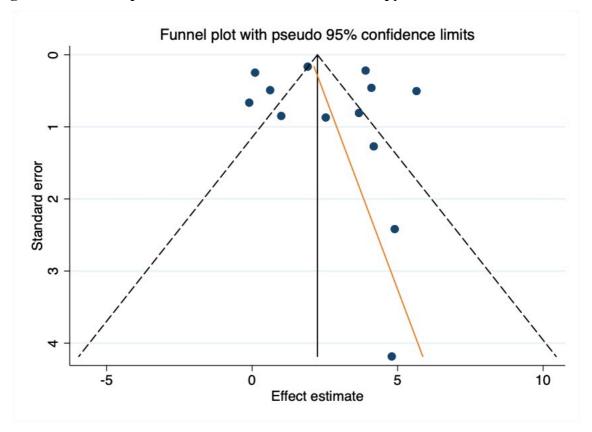
Figure S28. Funnel plot of effect of bicarbonate therapy on the progression to kidney failure

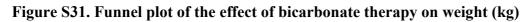


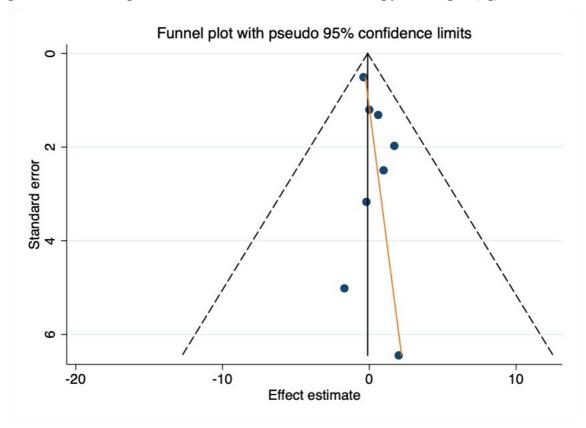


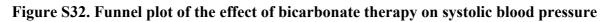


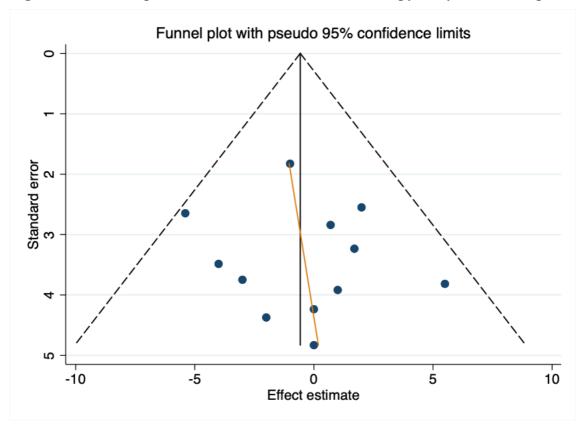


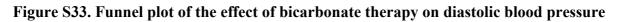












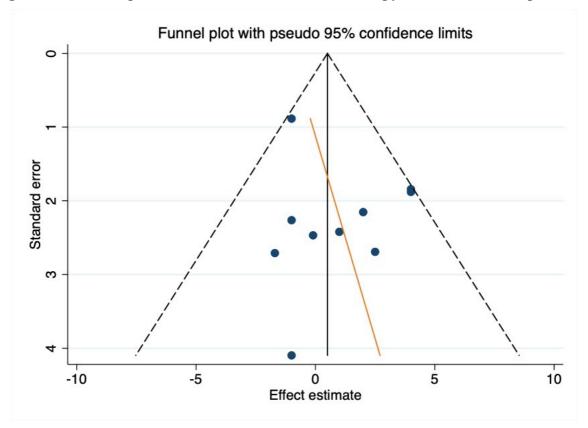


Figure S34. Subgroup analysis of the effect of bicarbonate therapy on systolic blood pressure according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on change in systolic blood pressure. Interaction p-value 0.81

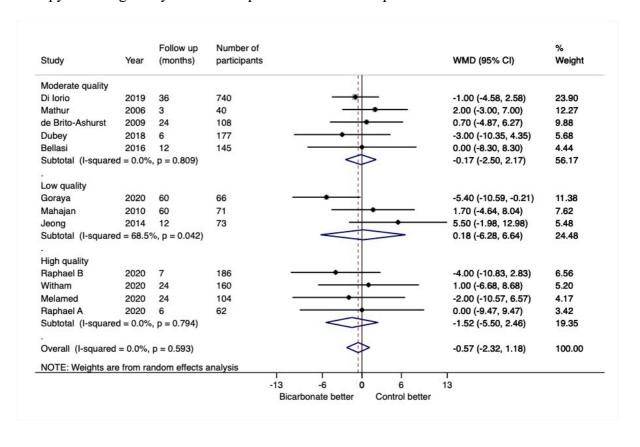


Figure S35. Subgroup analysis of the effect of bicarbonate therapy on diastolic blood pressure according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on change in diastolic blood pressure. Interaction p-value 0.75.

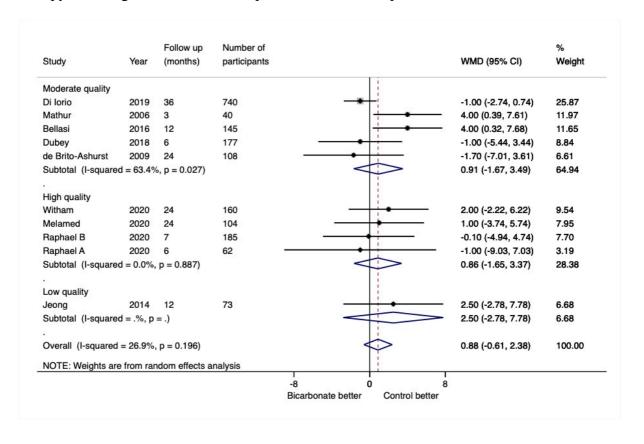


Figure S36. Subgroup analysis of the effect of bicarbonate therapy on change in weight according to trial quality.

Forest plot showing subgroup analysis according to trial quality on the effect of bicarbonate therapy on change in weight. Interaction p-value 0.37

