

Supplementary Table S2. Detailed search strategy in three databases.

Database	Search strategy
Pubmed	<p>((((((((((Chlorphthalidolone) OR (Phthalamudine)) OR (Oxodoline)) OR (Chlortalidone)) OR (Hygroton)) OR (Thalitone)) OR ("Chlorthalidone"[Mesh])) AND (((((((((((HCTZ) OR (Dichlothiazide)) OR (Dihydrochlorothiazide)) OR (HydroDIURIL)) OR (Oretic)) OR (Sectrazide)) OR (Esidrix)) OR (Esidrex)) OR (Hypothiazide)) OR ("Hydrochlorothiazide"[Mesh])))) AND (((((((((((Cardiovascular Disease) OR (Disease, Cardiovascular)) OR (Major Adverse Cardiac Events)) OR (Cardiac Events)) OR (Cardiac Event)) OR (Event, Cardiac)) OR (Adverse Cardiac Event)) OR (Adverse Cardiac Events)) OR (Cardiac Event, Adverse)) OR (Cardiac Events, Adverse)) OR (Cardiovascular Diseases))</p>
Cochrane	<p>1 (Chlorthalidone or Chlorphthalldolane or Phthalamudine or Oxodoline or Chlortalidone or Hygroton ar Thalitone).af. 2 (hydrochlorothiazide ar HcT2 or Dichlothiazide ar Dlhydrochlorothiazide or HydraDluRi. or Orellc: ar Sectrazide ar Esidix orEsidrex or Hypothiazide).af. 3(cardovascular diseases or Cardlovascular Disease or Disease, Cardkovascular or Malor Adverse Cardlac Events or Cardlac Eventsor Cardlac Event or Event, Cardlac or Adverse Cardlac Event or Advese Cardiac Events or Cardlac Event, Adverse or Cardlac Events.Adverse).af. 1 and 2 and 3</p>
Embase *	<p>1 (Chlorthalidone or Chlorphthalldolane or Phthalamudine or Oxodoline or Chlortalidone or Hygroton ar Thalitone).af. 2 (hydrochlorothiazide ar HcT2 or Dichlothiazide ar Dlhydrochlorothiazide or HydraDluRi. or Orellc: ar Sectrazide ar Esidix orEsidrex or Hypothiazide).af. 3(cardovascular diseases or Cardlovascular Disease or Disease, Cardkovascular or Malor Adverse Cardlac Events or Cardlac Eventsor Cardlac Event or Event, Cardlac or Adverse Cardlac Event or Advese Cardiac Events or Cardlac Event, Adverse or Cardlac Events.Adverse).af. 1 and 2 and 3</p>
Web of Science	<p>Web of science 1 Chlorthalidone (Topic)or Chlorphthalldolane (Topic)or Phthalamudine (Topic)or Oxodoline (Topic)or Chlortalidone (Topic)or Hygroton ar Thalitone 2 hydrochlorothiazide ar HcT2 (Topic)or Dichlothiazide ar Dlhydrochlorothiazide (Topic)or HydraDluRi. (Topic)or</p>

Orellc: ar Sectrazide ar Esidix orEsidrex or Hypothiazide
3 cardiovascular diseases (Topic)or Cardiovascular Disease
(Topic)or Disease, Cardiovascular (Topic)or Major Adverse
Cardiac Events (Topic)or Cardiac Events(Topic)or Cardiac
Event (Topic)or Event, Cardiac (Topic)or Adverse Cardiac
Event (Topic)or Adverse Cardiac Events (Topic)or Cardiac
Event, Adverse (Topic)or Cardiac Events.Adverse
((#1)and 2) and# 3

* We retrieved articles from Embase via the Ovid (<https://ovidsp.ovid.com/>).