

Supplementary Table 1: The detailed search strategy and results for each database

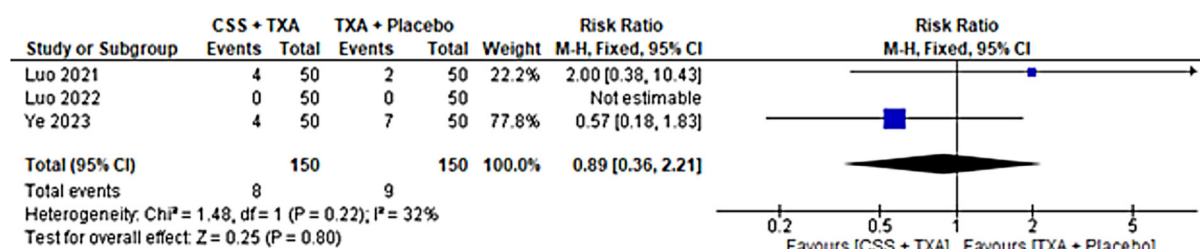
Database	Search strategy	Results
MEDLINE via PubMed	(adrenochromazone OR Adrenochrome OR Adona OR Carbazochrome OR CSS OR Adrenochrome semicarbazone OR Adrenoxyl OR Adrenosem OR AC-17 OR Adchnon OR Carbazocromo) AND (Hip Replacement OR Hip arthroplasty OR hip Arthroplasties OR Hip Prosthesis Implantation OR THR OR Hip resurfacing OR Hip reconstruction surgery)	23
Scopus	("adrenochromazone" OR "Adrenochrome" OR "Adona" OR "Carbazochrome" OR "CSS" OR "Adrenochrome semicarbazone" OR "Adrenoxyl" OR "Adrenosem" OR "AC-17" OR "Adchnon" OR "Carbazocromo") AND ("Hip Replacement" OR "Hip arthroplasty" OR "hip Arthroplasties" OR "Hip Prosthesis Implantation" OR "THR" OR "Hip resurfacing" OR "Hip reconstruction surgery")	17
Web of Science	(adrenochromazone OR Adrenochrome OR Adona OR Carbazochrome OR CSS OR Adrenochrome semicarbazone OR Adrenoxyl OR Adrenosem OR AC-17 OR Adchnon OR Carbazocromo) AND (Hip Replacement OR Hip arthroplasty OR hip Arthroplasties OR Hip Prosthesis Implantation OR THR OR Hip resurfacing OR Hip reconstruction surgery)	22
Cochrane Library	(adrenochromazone OR Adrenochrome OR Adona OR Carbazochrome OR CSS OR Adrenochrome semicarbazone OR Adrenoxyl OR Adrenosem OR AC-17 OR Adchnon OR Carbazocromo) AND (Hip Replacement OR Hip arthroplasty OR hip Arthroplasties OR Hip Prosthesis Implantation OR THR OR Hip resurfacing OR Hip reconstruction surgery)	10

Supplementary Table 2: Safety Outcomes – Incidence and Risk Ratios (All Studies)

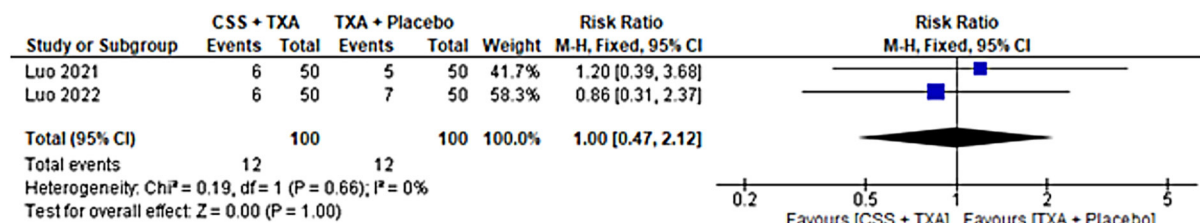
Adverse Event	CSS+TXA (n/N)	TXA Only (n/N)	RR	95% CI	P value
DVT	0/300	0/300	—	—	—
IMVT	2/150	2/150	1.00	[0.27, 3.65]	1.00
Stroke	0/300	0/300	—	—	—
Nausea	5/50	7/50	0.71	[0.23, 2.18]	0.55
Vertigo	5/50	6/50	0.83	[0.25, 2.76]	0.76
Urticaria	0/50	0/50	—	—	—
Muscle cramps	0/50	0/50	—	—	—
Seizure/epilepsy	0/200	0/200	—	—	—
Myocardial infarction	0/300	0/300	—	—	—

DVT: Deep vein thrombosis; IMVT: Intramuscular venous thrombosis; RR: Risk ratio; CI: Confidence interval; CSS: Carbazochrome sodium sulfonate; TXA: Tranexamic acid; n/N: number of events/total number of patient

A



B



Supplementary figure 1: The forest plot shows the comparison between (CSS+TXA) and (TXA+Placebo) groups regarding (A: Wound complications, B: IMVT). CSS: Carbazochrome sodium sulfonate; TXA: Tranexamic acid; IMVT: Intramuscular venous thrombosis