Supplementary Table 1. Search strategy for each database.

Database	Order	Keywords
PubMed	#1	delirium OR deliri* OR cognitive OR cognitive impairment OR neurocognitive OR mental
	#2	postoperative OR postop* OR postsurg* OR after surg* OR after op*
	#3	#1 AND #2
	#4	NSAID OR nonsteroidal anti-inflammatory drug OR aspirin
	#5	#3 AND #4
	#6	randomized controlled trial [pt]
	#7	controlled clinical trial [pt]
	#8	randomized [tiab] OR randomised [tiab]
	#9	placebo [tiab]
	#10	randomly [tiab]
	#11	trial [tiab]
	#12	groups [tiab]
	#13	#6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12
	#14	animals [mh] NOT humans [mh]
	#15	#13 NOT #14
	#16	#5 AND #15
EMBASE	#1	'delirium'/exp OR 'delirium' OR 'cognitive'/exp OR 'neurocognitive'/exp OR
		'mental'/exp
	#2	'surgery'/exp OR surg* OR 'operation'/exp OR op*
	#3	'NSAID'/exp OR 'nonsteroidal anti-inflammatory drug' OR 'aspirin'/exp
	#4	#1 AND #2 AND #3
	#5	random*:ab,ti OR ((clinical NEXT/1 trial*):de,ab,ti) OR ((double NEXT/1 blind*):ab,ti) OR group*
	#6	#4 AND #5
	#7	#6 AND [article]/lim
CENTRAL	#1	("NSAID" OR "aspirin"):ti,ab,kw (Word variations have been searched)
	#2	(deliri* OR cognitive* OR mental OR neurocognitive*):ti,ab,kw (Word
		variations have been searched)
	#3	(surg* OR op*):ti,ab,kw (Word variations have been searched)
	#4	#1 AND #2 AND #3
	#5	#4 in Trials
Web of Science	#1	TS=("NSAID" OR "aspirin")
	#2	TS=(deliri* OR "cognitive disorder" OR cognitive OR "cognitive
		impairment" OR neurocognitive OR mental)
	#3	TS=(surg* OR ope*)
	#4	#1 AND #2 AND #3
	#5	TS=(random* OR "clinical NEXT/1 trial*" OR placebo* OR "double NEXT/1 blind*" OR group*)
	#6	#4 AND #5