

**Supplementary Table 1. Search query****Key questions 1–7**

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Date: 2022. 09. 19.			
Category	N	Search terms	Results
P	1	exp Cluster Headache/ or (cluster adj2 headache).tw,kw.	3,610
I	2	exp Sumatriptan/ or (triptan* or sumatriptan or almotriptan or zolmitriptan or eletriptan or naratriptan or rizatriptan or frovatriptan).tw,kw.	5,213
	3	exp Oxygen/ or oxygen*.tw,kw.	612,553
	4	exp Steroids/ or (steroid* or prednisone or prednisolone or Dehydrocortisone or Cortisone or Panazol or Predniment or Prednison or Pronisone or Rectodelt or Sone or Sterapred or Ultracorten or Winpred or Cortan* or Panafcort or Cutason or Decortin or Dacorti* or Deltasone or Encorton* or Enkortolon or Kortancyl or Liquid Pred or Meticorten or Orasone or Predni Tablinen or Prednidib).tw,kw.	1,045,290
	5	exp Lithium/ or lithium*.tw,kw.	39,035
	6	exp Verapamil/ or (Verapamil).tw,kw.	26,369
	7	((Anti-CGRP adj2 Antibod*) or anti-CGRP mAb* or galcanezumab or fremanezumab or erenumab or eptinezumab).tw,kw.	618
	8	((occipital adj2 block*) or (suboccipital adj2 block*) or (suboccipital adj2 injection*)).tw,kw.	296
I overall	9	OR/2-81	1,704,814
P&I	10	1 AND 9	831
SIGN filter (systematic review)	11	(Meta-Analysis as Topic/ or meta analy\$.tw. or metaanaly\$.tw. or Meta-Analysis/ or (systematic adj (review\$1 or overview\$1)).tw. or exp Review Literature as Topic/ or cochrane.ab. or embase.ab. or (psychlit or psyclit).ab. or (psychinfo or psycinfo).ab. or (cinahl or cinhal).ab. or science citation index.ab. or bids.ab. or cancerlit.ab. or reference list\$.ab. or bibliograph\$.ab. or hand-search\$.ab. or relevant journals.ab. or manual search\$.ab. or ((selection criteria.ab. OR data extraction.ab.) AND Review/)) not (Comment/ or Letter/ or Editorial/ or (animal/ not (animal/ and human/)))	395,119
SIGN filter (RCT)	12	(Randomized Controlled Trials as Topic/ or randomized controlled trial/ or Random Allocation/ or Double Blind Method/ or Single Blind Method/ or clinical trial/ or clinical trial, phase i.pt. or clinical trial, phase ii.pt. or clinical trial, phase iii.pt. or clinical trial, phase iv.pt. or controlled clinical trial.pt. or randomized controlled trial.pt. or multicenter study.pt. or clinical trial.pt. or exp Clinical Trials as topic/ or (clinical adj trial\$).tw. or ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. or PLACEBOS/ or placebo\$.tw. or randomly allocated.tw. or (allocated adj2 random\$).tw.) not (case report.tw. or letter/ or historical article/)	1,726,265
SIGN filter (observational studies)	13	Epidemiologic Studies/ or exp Case Control Studies/ or exp Cohort Studies/ or Case-control.tw. or (cohort adj (study or studies)).tw. or Cohort analy\$.tw. or (Follow up adj (study or studies)).tw. or (observational adj (study or studies)).tw. or Longitudinal.tw. or Retrospective.tw. or Cross sectional.tw. or Cross-sectional studies/	3,335,118
Study design filter	14	OR/11-13	4,808,029
Overall	15	10 AND 14	260

## Embase

Date: 2022. 09. 19.			
Category	N	Search terms	Results
P	1	'cluster headache'/exp or (cluster NEAR/2 headache):ab,ti,kw	7,187
I	2	'sumatriptan'/exp or (triptan* or sumatriptan or almotriptan or zolmitriptan or eletriptan or naratriptan or rizatriptan or frovatriptan):ab,ti,kw	13,427
	3	'oxygen'/exp or oxygen*:ab,ti,kw	878,688
	4	'steroid'/exp or (steroid* or prednisone or prednisolone or Dehydrocortisone or Cortisone or Panazol or Predniment or Prednison or Pronisone or Rectodelt or Sone or Sterapred or Ultracorten or Winpred or Cortan* or Panafcort or Cutason or Decortin or Dacorti* or Deltasone or Encorton* or Enkortolon or Kortancyl or Liquid Pred or Meticorten or Orasone or Predni Tablinen or Prednidib):ab,ti,kw	1,821,088

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**Supplementary Table 1. Continued**

Date: 2022. 09. 19.			
Category	N	Search terms	Results
	5	'lithium'/exp or lithium*:ab,ti,kw	90,551
	6	'verapamil'/exp or Verapamil:ab,ti,kw	61,069
	7	((Anti-CGRP NEAR/2 Antibod*) or anti-CGRP mAb* or galcanezumab or fremanezumab or erenum-ab or eptinezumab):ab,ti,kw	2,195
	8	((occipital NEAR/2 block*) or (suboccipital NEAR/2 block*) or (suboccipital NEAR/2 injection*)):ab,ti,kw	673
I overall	9	#2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8	2,806,848
P&I	10	#1 AND #9	2,666
	11	#10 AND ('article'/it OR 'article in press'/it OR 'review'/it OR 'short survey'/it)	1,863
Overall	12	#11 AND ('case control study'/de OR 'clinical article'/de OR 'clinical trial'/de OR 'cohort analysis'/de OR 'comparative effectiveness'/de OR 'comparative study'/de OR 'controlled clinical trial'/de OR 'controlled study'/de OR 'cross sectional study'/de OR 'double blind procedure'/de OR 'major clinical study'/de OR 'meta analysis'/de OR 'multicenter study'/de OR 'observational study'/de OR 'phase 2 clinical trial topic'/de OR 'phase 3 clinical trial'/de OR 'phase 3 clinical trial topic'/de OR 'prospective study'/de OR 'randomized controlled trial'/de OR 'randomized controlled trial topic'/de OR 'retrospective study'/de OR 'systematic review'/de)	871

## Cochrane library

Date: 2022. 09. 19.			
Category	N	Search terms	Results
P	1	[mh "Cluster Headache"] or (cluster NEAR/2 headache):ab,ti,kw	414
I	2	[mh "Sumatriptan"] or (triptan* or sumatriptan or almotriptan or zolmitriptan or eletriptan or naratriptan or rizatriptan or frovatriptan):ab,ti,kw	1,857
	3	oxygen*:ab,ti,kw	58,243
	4	[mh "Steroids"] or (steroid* or prednisone or prednisolone or Dehydrocortisone or Cortisone or Panazol or Predniment or Prednison or Pronison or Rectodelt or Sone or Sterapred or Ultracorten or Winpred or Cortan* or Panafcort or Cutason or Decortin or Dacorti* or Deltasone or Encorton* or Enkortolon or Kortancyl or Liquid Pred or Meticorten or Orasone or Predni Tablinen or Prednidib):ab,ti,kw	97,126
	5	[mh "Lithium"] or lithium*:ab,ti,kw	3,207
	6	[mh "Verapamil"] or Verapamil:ab,ti,kw	2,433
	7	((Anti-CGRP NEAR/2 Antibod*) or anti-CGRP mAb* or galcanezumab or fremanezumab or erenum-ab or eptinezumab):ab,ti,kw	1,133
	8	((occipital NEAR/2 block*) or (suboccipital NEAR/2 block*) or (suboccipital NEAR/2 injection*)):ab,ti,kw	131
I overall	9	#2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8	160,667
P&I	10	#1 AND #9	195

## KoreaMed

Date: 2022. 09. 19			
Search database	N	Search terms	Reference Notes
1. KoreaMed	1	("Cluster Headache"[MH]) AND ("Sumatriptan"[MH] OR "Oxygen"[MH] OR "Steroids"[MH] OR "Lithium"[MH] OR "Verapamil"[MH])	4
	2	("Cluster Headache"[ALL]) AND ("Sumatriptan"[ALL] OR "Oxygen"[ALL] OR triptan*[ALL] OR Steroid*[ALL] OR "Lithium"[ALL] OR "Verapamil"[ALL] OR "anti-CGRP"[ALL] OR "occipital nerve block"[ALL] OR "suboccipital nerve block"[ALL] OR "occipital injection"[ALL])	7
	3	After deduplication	7