

Supplementary Table S1: Search Strategy

PubMed – 2,512 results		
("Brain Infarction"[MeSH Terms] OR "Ischemic Stroke"[MeSH Terms] OR "Brain Ischemia"[MeSH Terms] OR "Infarction"[MeSH Terms] OR "Ischemia"[MeSH Terms] OR ("ischemic stroke"[Title/Abstract] OR "ischaemic stroke"[Title/Abstract] OR "wake up stroke"[Title/Abstract] OR "cryptogenic stroke"[Title/Abstract] OR "cryptogenic embolism stroke"[Title/Abstract] OR "embolic stroke"[Title/Abstract] OR "cardioembolic stroke"[Title/Abstract] OR "cardio embolic stroke"[Title/Abstract] OR "cardio embolic stroke"[Title/Abstract] OR "thrombotic stroke"[Title/Abstract] OR "brain infarction"[Title/Abstract] OR "brain isch"[Title/Abstract] OR "cerebral isch"[Title/Abstract] OR "cerebral infarction"[Title/Abstract] OR "cerebellar infarction"[Title/Abstract] OR "infarct"[Title/Abstract] OR "isch"[Title/Abstract])) AND ("posterior cerebral artery"[MeSH Terms] OR "vertebral artery"[MeSH Terms] OR "basilar artery"[MeSH Terms] OR "blood circulation"[MeSH Terms] OR "occipital lobe"[MeSH Terms] OR "cerebellum"[MeSH Terms] OR (((("posterior cerebral"[Title/Abstract] OR "vertebral"[Title/Abstract] OR "cerebral"[Title/Abstract] OR "basilar"[Title/Abstract]) AND ("arteries"[Title/Abstract] OR "artery"[Title/Abstract])) OR "posterior"[Title/Abstract] OR "fossa"[Title/Abstract] OR ("cerebell*[Title/Abstract] OR "occipital"[Title/Abstract])))) AND ("decompression, surgical"[MeSH Terms] OR "craniotomy"[MeSH Terms] OR "neurosurgical procedure"[MeSH Terms] OR (((("craniotomy"[Title/Abstract] OR "craniectomy"[Title/Abstract] OR "hemicraniectomy"[Title/Abstract]) AND "decompress"[Title/Abstract]) OR "suboccipital craniectomy"[Title/Abstract] OR "neurosurgical procedures"[Title/Abstract] OR ((("ventriculoperitoneal"[Title/Abstract] OR "ventriculo-peritoneal"[Title/Abstract]) AND "shunt"[Title/Abstract]) OR "Ventriculostomy"[Title/Abstract] OR ("surgical"[Title/Abstract] AND "decompression"[Title/Abstract]))))		
Embase – 5207 results		
(('brain ischemia'/exp OR 'brain infarction'/exp OR 'cerebral artery disease'/exp OR 'cerebrovascular accident'/exp OR 'occlusive cerebrovascular disease'/exp OR 'wallenberg syndrome'/exp OR 'ischemia'/exp OR 'infarction'/exp) OR ('ischemic stroke':ab,ti OR 'wake up stroke':ab,ti OR 'cryptogenic stroke':ab,ti OR 'cryptogenic embolism stroke':ab,ti OR 'embolic stroke':ab,ti OR 'cardioembolic stroke':ab,ti OR 'cardio embolic stroke':ab,ti OR 'thrombotic stroke':ab,ti OR 'brain infarction':ab,ti OR 'brain isch':ab,ti OR 'cerebral isch':ab,ti OR 'cerebral infarction':ab,ti OR 'cerebellar infarction':ab,ti OR infarct':ab,ti OR ischemia:ab,ti)) AND (('circulation'/exp OR 'basilar artery'/exp OR 'superior cerebellar artery'/exp OR 'posterior inferior cerebellar artery'/exp OR 'posterior cerebral artery'/exp OR 'anterior inferior cerebellar artery'/exp OR 'vertebral artery'/exp OR 'cerebellum'/exp OR 'occipital lobe'/exp OR 'brain stem'/exp) OR (('posterior cerebral':ab,ti OR vertebral:ab,ti OR cerebral:ab,ti OR basilar:ab,ti) AND (arteries:ab,ti OR artery:ab,ti) OR posterior:ab,ti OR fossa:ab,ti OR cerebell*:ab,ti OR occipital:ab,ti)) AND (('decompression surgery'/exp OR 'skull surgery'/exp OR 'ventriculostomy'/exp) OR ((craniotomy:ab,ti OR craniectomy:ab,ti OR hemicraniectomy:ab,ti) AND decompress*:ab,ti OR 'suboccipital craniectomy':ab,ti OR 'neurosurgical procedures':ab,ti OR ((ventriculoperitoneal:ab,ti OR 'ventriculo peritoneal':ab,ti) AND shunt*:ab,ti) OR ventriculostomy:ab,ti OR (surgical:ab,ti AND decompression*:ab,ti)))		
Cochrane – 123 results		
Print:		
ID	Search	Hits
#1	MeSH descriptor: [Brain Infarction] explode all trees	1312
#2	MeSH descriptor: [Ischemic Stroke] explode all trees	71
#3	MeSH descriptor: [Brain Ischemia] explode all trees	3688
#4	MeSH descriptor: [Infarction] explode all trees	12383
#5	MeSH descriptor: [Ischemia] explode all trees	14276
#6	(ischemic stroke* OR ischaemic stroke* OR wake up stroke* OR cryptogenic stroke* OR cryptogenic embolism stroke* OR embolic stroke* OR cardioembolic stroke* OR cardio embolic stroke* OR thrombotic stroke* OR brain infarction* OR brain isch* OR cerebral isch* OR cerebral infarction* OR cerebellar infarction* OR infarct* OR isch*):ti,ab,kw	76333

#7	#1 OR #2 OR #3 OR #4 OR #5 OR #6	76423
#8	MeSH descriptor: [Posterior Cerebral Artery] explode all trees	9
#9	MeSH descriptor: [Vertebral Artery] explode all trees	66
#10	MeSH descriptor: [Basilar Artery] explode all trees	30
#11	MeSH descriptor: [Blood Circulation] explode all trees	7987
#12	MeSH descriptor: [Occipital Lobe] explode all trees	278
#13	MeSH descriptor: [Cerebellum] explode all trees	211
#14	((posterior cerebral OR vertebral OR cerebral OR basilar) AND (arteries OR artery) OR posterior OR fossa OR cerebell* OR occipital):ti,ab,kw	26729
#15	#8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14	33965
#16	MeSH descriptor: [Decompression, Surgical] explode all trees	1148
#17	MeSH descriptor: [Craniotomy] explode all trees	447
#18	MeSH descriptor: [Neurosurgical Procedures] explode all trees	6202
#19	(((craniotomy OR craniectomy OR hemicraniectomy) AND decompress*) OR suboccipital craniectomy OR neurosurgical procedures OR ((ventriculoperitoneal OR ventriculo peritoneal) AND shunt*) OR (Ventriculostomy OR (surgical AND decompression*)))	2655
#20	#16 OR #17 OR #18 OR #19	8543
#21	#7 AND #15 AND #20	123

Supplementary Table S2a: The Newcastle-Ottawa Scale for risk of bias assessment of Cohort studies.

No.	Author	Selection (Max ☆)				Comparability (Max ☆☆)	Outcome (Max ☆ per item)			Overall Quality
		Representativeness of the exposed cohort	Selection of the non- exposed cohort	Ascertainment of exposure	Demonstration that outcome of interest was not present at start of study	Comparability of cohorts on the basis of the design or analysis controlled for confounders	Assessment of outcome	Was follow-up long enough for outcomes to occur	Adequacy of follow- up of cohorts	
1	Raco et al., 2003	☆	☆	☆	☆		☆			Poor
2	Mathew et al., 1995	☆	☆	☆	☆		☆			Poor
3	Hornig et al., 1994	☆	☆	☆	☆		☆			Poor
4	Jauss et al., 1992	☆	☆	☆	☆	☆	☆	☆	☆	Good
5	Mostofi, 2013	☆	☆	☆	☆		☆	☆		Good
6	Koh et al., 1999	☆	☆	☆	☆		☆	☆	☆	Good
7	Taneda et al., 1982	☆	☆	☆	☆		☆			Poor
8	Taylor et al., 2020	☆	☆	☆	☆	☆	☆			Good

Supplementary Table S2c: The Joanna Briggs Institute (JBI) Critical Appraisal Checklist for analytical case-control studies.

[illegible]