



Hva er effekten av hemikraniektomi ved akutt hjerneinfarkt hos alle aldersgrupper?

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Kommentar: Søk etter systematiske oversikter og RCT-er.
Tidsbruk: 45 timer

SR med dubletter: 310
SR uten dubletter: 244
RCT med dubletter: 541
RCT uten dubletter: 344

Pico-skjema:

Hva handler spørsmålet om?	Spørsmålet i PICO format			
	Populasjon (pasient)	Intervensjon (tiltak)	Comparison (sammenligning/kontroll)	Outcome(s) (utfall/effekt)
Hva er effekten av hemikraniektomi ved akutt hjerneinfarkt hos alle aldersgrupper?	Akutt hjerneinfarkt, alle aldersgrupper	Hemikraniektomi	Ikke hemikraniektomi	mRS, NIHSS, død, komplikasjoner, livskvalitet

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present
Dato: 14.10.2015
Antall treff: 406 total (198 SR og 130 RCT)

#	Searches	Results
1	stroke/	68830
2	cerebral infarction/	20000
3	infarction, middle cerebral artery/	6291
4	carotid artery, internal, dissection/	1098
5	carotid artery thrombosis/	2980
6	"intracranial embolism and thrombosis"/	8770
7	intracranial embolism/	3137
8	intracranial thrombosis/	1968
9	brain edema/	12940



10	stroke*.tw.	171587
11	((brain* or cerebr* or hemispher* or intracran* or intracerebral or supratentorial or MCA or anterior circulation) adj5 (infarct* or thrombo* or emboli*)).tw.	39610
12	((brain or cerebr\$ or hemispher\$ or intracranial or mca or anterior circulat\$) adj5 (oedema or odema or edema or swell\$ or swollen)).tw.	14824
13	or/1-12	243043
14	decompression, surgical/	11246
15	decompressive craniectomy/	646
16	craniotomy/	10555
17	trephining/	1249
18	(decompress\$ or craniectom\$ or craniotom\$ or hemi?craniect\$ or trepa\$ or treph\$).tw.	49404
19	or/14-18	58894
20	13 and 19	2932
21	((systematic* or literature) adj2 review*).mp.	178225
22	(metaanalys* or meta analys*).mp. or (meta analysis or review).pt.	2122491
23	or/21-22	2180363
24	20 and 23	486
25	limit 24 to yr="2010 -Current"	198
26	randomized controlled trial.pt. or randomi#ed.mp. or placebo.mp.	707556
27	20 and 26	263
28	limit 27 to yr="2010 -Current"	130



Database: Embase 1974 to 2015 October 13

Dato: 14.10.2015

Antall treff: 331 total (65 SR og 299 RCT)

#	Searches	Results
1	brain infarction/	39949
2	brain infarction size/	4936
3	cardioembolic stroke/	1199
4	experimental stroke/	284
5	four vessel occlusion-induced stroke/	4
6	cerebral artery disease/	3672
7	carotid artery injury/	3547
8	carotid artery thrombosis/	2603
9	thromboembolism/ and exp brain/	1875
10	brain embolism/	5861
11	occlusive cerebrovascular disease/	7693
12	brain edema/	25401
13	carotid artery disease/	10358
14	carotid artery anomaly/	353
15	carotid artery obstruction/	21765
16	internal carotid artery occlusion/	4380
17	middle cerebral artery occlusion/	13291
18	sneddon syndrome/	362
19	susac syndrome/	349
20	stroke*.tw.	251954
21	((brain* or cerebr* or hemispher* or intracran* or intracerebral or supratentorial or MCA or anterior circulation) adj5 (infarct* or thrombo* or emboli*)).tw.	54593
22	((brain or cerebr\$ or hemispher\$ or intracranial or mca or anterior circulat\$) adj5 (oedema or odema or edema or swell\$ or swollen)).tw.	19370
23	or/1-22	364468



24	decompression surgery/	14097
25	brain decompression/	1730
26	decompression/	7250
27	skull surgery/	4455
28	craniectomy/	3907
29	cranioplasty/	2494
30	craniotomy/	21947
31	decompressive craniectomy/	1943
32	(decompress\$ or craniectom\$ or craniotom\$ or hemi?craniect\$ or trepa\$ or treph\$).tw.	61213
33	or/24-32	86336
34	23 and 33	5944
35	meta analysis/ or "systematic review"/ or ((systematic* adj2 review*) or metaanalys* or meta analys*).tw.	219763
36	34 and 35	102
37	limit 36 to yr="2010 -Current"	65
38	randomized controlled trial/ or randomi#ed.mp. or placebo.mp.	954695
39	34 and 38	522
40	limit 39 to yr="2010 -Current"	299

Database: The Cochrane Library (*Cochrane Database of Systematic Reviews: Issue 10 of 12, October 2015; Database of Abstracts of Reviews of Effect: Issue 2 of 4, April 2015; Cochrane Central Register of Controlled Trials: Issue 9 of 12, September 2015; Health Technology Assessment Database: Issue 3 of 4, July 2015*)

Dato: 14.10.2015

Antall treff: 82 (CDSR: 4; Other: 3; Trials: 75; HTA: 0)

ID	Search	Hits
#1	MeSH descriptor: [Stroke] this term only	5055
#2	MeSH descriptor: [Cerebral Infarction] this term only	510
#3	MeSH descriptor: [Infarction, Middle Cerebral Artery] this term only	93
#4	MeSH descriptor: [Carotid Artery, Internal, Dissection] this term only	5
#5	MeSH descriptor: [Carotid Artery Thrombosis] this term only	18
#6	MeSH descriptor: [Intracranial Embolism and Thrombosis] this term only	84



#7	MeSH descriptor: [Intracranial Embolism] this term only	115
#8	MeSH descriptor: [Intracranial Thrombosis] this term only	34
#9	MeSH descriptor: [Brain Edema] this term only	133
#10	(stroke*):ti,ab,kw	27532
#11	((brain* or cerebr* or hemispher* or intracran* or intracerebral or supratentorial or MCA or anterior next circulation) near/5 (infarct* or thrombo* or emboli*)):ti,ab,kw	4076
#12	((brain or cerebr* or hemisphere* or intracranial or mca or anterior circulat*) near/5 (oedema or odema or edema or swell* or swollen)):ti,ab,kw	466
#13	{or #1-#12}	30582
#14	MeSH descriptor: [Decompression, Surgical] this term only	458
#15	MeSH descriptor: [Decompressive Craniectomy] this term only	18
#16	MeSH descriptor: [Craniotomy] this term only	340
#17	MeSH descriptor: [Trephining] this term only	5
#18	(decompress* or craniectom* or craniotomy* or hemi*craniect* or trepa* or treph*):ti,ab,kw	2430
#19	{or #14-#18}	2430
#20	#13 and #19 Publication Year from 2010 to 2015, in Cochrane Reviews (Reviews and Protocols), Other Reviews, Trials and Technology Assessments	82

Database: Cinahl
Dato: 14.10.2015
Antall treff: 35 total (24 SR og 19 RCT)

#	Query	Results
S1	(MH "Stroke")	35,211
S2	(MH "Infarction") AND (MH "Middle Cerebral Artery")	6
S3	(MH "Carotid Artery Dissections")	237
S4	(MH "Carotid Artery Thrombosis")	45
S5	(MH "Intracranial Embolism and Thrombosis")	866
S6	(MH "Intracranial Embolism")	182
S7	(MH "Intracranial Thrombosis")	115
S8	(MH "Stroke Patients")	2,461
S9	(MH "Cerebral Edema")	736



S10	TI (stroke*) OR AB (stroke*)	39,301
S11	TI (((brain* or cerebr* or hemispher* or intracran* or intracerebral or supratentorial or MCA or anterior circulation) N5 (infarct* or thrombo* or emboli*))) OR AB (((brain* or cerebr* or hemispher* or intracran* or intracerebral or supratentorial or MCA or anterior circulation) N5 (infarct* or thrombo* or emboli*)))	3,978
S12	TI (((brain or cerebr* or hemisphere* or intracranial or mca or anterior circulat*) N5 (oedema or odema or edema or swell* or swollen))) OR AB (((brain or cerebr* or hemisphere* or intracranial or mca or anterior circulat*) N5 (oedema or odema or edema or swell* or swollen)))	827
S13	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12	52,439
S14	(MH "Decompression, Surgical")	1,589
S15	(MH "Decompressive Craniectomy")	24
S16	(MH "Craniotomy")	616
S17	TI ((decompress* or craniectom* or craniotom* or hemi#craniect* or trepa* or treph*) OR AB ((decompress* or craniectom* or craniotom* or hemi#craniect* or trepa* or treph*)	3,407
S18	S14 OR S15 OR S16 OR S17	4,344
S19	S13 AND S18	254
S20	(MH "Systematic Review")	23,821
S21	(MH "Literature Review")	3,421
S22	(MH "Meta Analysis")	16,500
S23	PT systematic review OR PT review OR PT meta analysis	142,904
S24	TI ((metaanalys* or meta analys*)) OR AB ((metaanalys* or meta analys*))	16,094
S25	TI (((systematic* or literature) N2 review*)) OR AB (((systematic* or literature) N2 review*))	57,728
S26	S20 OR S21 OR S22 OR S23 OR S24 OR S25	176,853
S27	S19 AND S26	39



S28	S19 AND S26 Limiters - Published Date: 20100101-20151231	24
S29	(MH "Randomized Controlled Trials")	24,014
S30	PT Randomized Controlled Trial	29,640
S31	TI (randomi#ed or placebo) OR AB (randomi#ed or placebo)	90,659
S32	S29 OR S30 OR S31	100,884
S33	S19 AND S32	37
S34	S19 AND S32 Limiters - Published Date: 20100101-20151231	19
S35	S28 OR S34	35

Database: Epistemonikos
Dato: 14.10.2015
Antall treff: 16 SR og 18 primærstudier

(title:(stroke* OR infarct* OR thrombo* OR emboli* OR oedema OR odema OR edema OR swell* OR swollen) OR abstract:(stroke* OR infarct* OR thrombo* OR emboli* OR oedema OR odema OR edema OR swell* OR swollen)) AND (title:(decompress* OR craniectom* OR craniotomy* OR hemicraniect* OR trepa* OR treph*) OR abstract:(decompress* OR craniectom* OR craniotomy* OR hemicraniect* OR trepa* OR treph*)) From 2010-2016

Database: UpToDate
Dato: 15.10.2015
Antall treff: 12

Søk: decompressive craniectomy or decompressive craniotomy or hemicraniectomy

Resultater:

- **Decompressive hemicraniectomy for malignant middle cerebral artery territory infarction**
- **Evaluation and management of elevated intracranial pressure in adults**
- **Management of acute severe traumatic brain injury**
- **Ischemic stroke in children: Evaluation, initial management, and prognosis**
- **Intracranial subdural hematoma in children: Clinical features, evaluation, and management**
- **Subdural hematoma in adults: Prognosis and management**



- **Treatment and prognosis of cerebral venous thrombosis**
- **Elevated intracranial pressure (ICP) in children**
- **Treatment of aneurysmal subarachnoid hemorrhage**
- **Initial approach to severe traumatic brain injury in children**
- **Desflurane: Drug information**
- **Patient information: Hemorrhagic stroke treatment (Beyond the Basics)**

Database: Best Practice

Dato: 14.10.2015

Antall treff: 6

Søk: "decompressive craniectomy" or "decompressive craniotomy" or hemicraniectomy

Resultater:

[Stroke management: decompressive hemicraniectomy](#)

[Subdural haematoma > Treatment > Details > surgery](#)

[Abusive head trauma in infants > Treatment > Details > observation ± surgery](#)

[Ischaemic stroke > Follow Up > Complications](#)

[Assessment of traumatic brain injury, acute > Emergencies > Urgent considerations](#)

[Encephalitis > Treatment > Step-by-step](#)