



Effekt av CIMT i tidlig og sen fase hos pasienter med hjerneslag – PICO 3.7

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Kommentar: Søk etter systematiske oversikter og RCT-er
Tidsbruk: 24 timer

Dublettsjekk i EndNote:

Før dublettkontroll:

SR: 50
 RCT: 227

Etter dublettkontroll:

SR: 41
 RCT: 143

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 CIMT i tidlig og sen fase (> 3 mnd) hos pasienter med hjerneslag?	Slagpasienter i tidlig og sen fase (> 3mnd) med nedsatt armfunksjon	Constraint-Induced Movement Therapy (CIMT)	Annen spesifikk eller standard eller ingen (i sen fase) trening for parese i overekstremitet	armfunksjon, ADL-funksjon

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

Dato: 08.03.2016

Antall treff: 65 totalt (12 SR og 54 RCT)

#	Searches	Results
1	stroke/	70032
2	cerebrovascular disorders/	44221
3	basal ganglia cerebrovascular disease/	191
4	basal ganglia hemorrhage/	125
5	putaminal hemorrhage/	109
6	brain ischemia/	39953
7	brain infarction/	3564
8	brain stem infarctions/	612



9	lateral medullary syndrome/	642
10	cerebral infarction/	20010
11	dementia, multi-infarct/	1087
12	infarction, anterior cerebral artery/	197
13	infarction, middle cerebral artery/	6299
14	infarction, posterior cerebral artery/	226
15	hypoxia-ischemia, brain/	4189
16	cavernous sinus thrombosis/	305
17	sagittal sinus thrombosis/	172
18	sinus thrombosis, intracranial/	2589
19	subarachnoid hemorrhage/	17642
20	"intracranial embolism and thrombosis"/	8702
21	intracranial embolism/	4524
22	intracranial thrombosis/	2066
23	(stroke or cerebrovasc* or brain vascul* or cerebral vascul* or cva* or apoplex* or poststroke* or post-stroke*).tw.	209277
24	((brain* or cerebr* or cerebell* or vertebrobasilar or hemispher* or intracran* or intracerebral or infratentorial or supratentorial or MCA or anterior circulation or posterior circulation or basal ganglia) adj5 (isch?emi* or infarct* or thrombo* or emboli*)).tw.	81822
25	((brain* or cerebr* or cerebell* or intracerebral or intracran* or parenchymal or intraventricular or infratentorial or supratentorial or basal gangli*) adj5 (haemorrhag* or hemorrhag* or haematoma* or hematoma* or bleed*)).tw.	44930
26	or/1-25	347901
27	restraint, physical/	10583
28	exercise movement techniques/ or exercise/ or exercise therapy/	102500
29	immobilization/	12243
30	physical therapy techniques/	30878
31	(constrain\$ or restrain\$ or immobili\$).tw.	220176
32	(mCIMT or CIMT or CIT or "CI therapy" or "forced use").tw.	4954
33	recovery of function/	36199



34	splints/ or casts, surgical/	15408
35	or/27-34	406738
36	exp upper extremity/	142872
37	(upper limb* or upper extremit* or arm or shoulder or hand or axilla or elbow* or forearm* or finger* or wrist*).tw.	591722
38	36 or 37	648759
39	26 and 35 and 38	2342
40	((systematic* or literature) adj2 review*).mp.	184494
41	(metaanalys* or meta analys*).mp. or (meta analysis or review).pt.	2133908
42	40 or 41	2193333
43	39 and 42	319
44	limit 43 to yr="2015 -Current"	12
45	randomized controlled trial.pt. or (placebo or sham).tw. or randomi#ed.ti. or randomly.tw.	710996
46	39 and 45	611
47	limit 46 to yr="2015 -Current"	54
48	44 or 47	65

Database: Embase 1974 to 2016 March 07
Dato: 08.03.2016
Antall treff: 114 totalt (20 SR og 106 RCT)

#	Searches	Results
1	cerebrovascular accident/	118879
2	cerebrovascular disease/	51233
3	basal ganglion hemorrhage/	398
4	putaminal hemorrhage/	73
5	brain ischemia/	94891
6	brain infarction/	40813
7	brain stem infarction/	1118
8	Wallenberg syndrome/	787



9	brain infarction/	40813
10	multiinfarct dementia/	9529
11	cerebral artery disease/	3776
12	hypoxic ischemic encephalopathy/	3613
13	cavernous sinus thrombosis/	1381
14	sagittal sinus thrombosis/	485
15	cerebral sinus thrombosis/	4239
16	subarachnoid hemorrhage/	33495
17	thromboembolism/	58579
18	brain embolism/	6006
19	occlusive cerebrovascular disease/	7851
20	(stroke or cerebrovasc* or brain vasc* or cerebral vasc* or cva* or apoplex* or poststroke* or post-stroke*).tw.	311354
21	((brain* or cerebr* or cerebell* or vertebrobasilar or hemispher* or intracran* or intracerebral or infratentorial or supratentorial or MCA or anterior circulation or posterior circulation or basal ganglia) adj5 (isch?emi* or infarct* or thrombo* or emboli*)).tw.	112636
22	((brain* or cerebr* or cerebell* or intracerebral or intracran* or parenchymal or intraventricular or infratentorial or supratentorial or basal gangli*) adj5 (haemorrhag* or hemorrhag* or haematoma* or hematoma* or bleed*)).tw.	63668
23	or/1-22	569524
24	constraint induced therapy/	415
25	immobilization/	36270
26	kinesiotherapy/	26369
27	exercise/	212863
28	physiotherapy/	64811
29	(constrain\$ or restrain\$ or immobili\$).tw.	256808
30	(mCIMT or CIMT or CIT or "CI therapy" or "forced use").tw.	8889
31	convalescence/	38281
32	dynamic splint/	272
33	splint/	7780



34	plaster cast/	7856
35	or/24-34	610319
36	exp arm/	185756
37	(upper limb* or upper extremit* or arm or shoulder or hand or axilla or elbow* or forearm* or finger* or wrist*).tw.	768947
38	or/36-37	820113
39	23 and 35 and 38	3289
40	meta analysis/ or "systematic review"/ or ((systematic* adj2 review*) or metaanalys* or meta analys*).tw.	230538
41	39 and 40	195
42	limit 41 to yr="2015 -Current"	20
43	randomized controlled trial/ or randomi#ed.mp. or placebo.mp.	983176
44	39 and 43	860
45	limit 44 to yr="2015 -Current"	106

Database: The Cochrane Library (*Cochrane Database of Systematic Reviews: Issue 3 of 12, March 2016; Database of Abstracts of Reviews of Effect: Issue 2 of 4, April 2015; Cochrane Central Register of Controlled Trials: Issue 2 of 12, February 2016; Health Technology Assessment Database: Issue 1 of 4, January 2016*)

Dato: 09.03.2016

Antall treff: 47 totalt (4 SR og 43 primær)

ID	Search	Hits
#1	[mh ^stroke]	5837
#2	[mh ^"Cerebrovascular Disorders"]	1447
#3	[mh ^"basal ganglia cerebrovascular disease"]	11
#4	[mh ^"basal ganglia hemorrhage"]	9
#5	[mh ^"putaminal hemorrhage"]	6
#6	[mh ^"brain ischemia"]	1217
#7	[mh ^"brain infarction"]	60
#8	[mh ^"brain stem infarctions"]	6
#9	[mh ^"lateral medullary syndrome"]	6
#10	[mh ^"cerebral infarction"]	542
#11	[mh ^"dementia, multi-infarct"]	62



#12	[mh ^"infarction, anterior cerebral artery"]	4
#13	[mh ^"infarction, middle cerebral artery"]	106
#14	[mh ^"infarction, posterior cerebral artery"]	3
#15	[mh ^"hypoxia-ischemia, brain"]	141
#16	[mh ^"cavernous sinus thrombosis"]	0
#17	[mh ^"sagittal sinus thrombosis"]	0
#18	[mh ^"sinus thrombosis, intracranial"]	11
#19	[mh ^"subarachnoid hemorrhage"]	488
#20	[mh ^"intracranial embolism and thrombosis"]	84
#21	[mh ^"intracranial embolism"]	127
#22	[mh ^"intracranial thrombosis"]	35
#23	(stroke or cerebrovasc* or brain next vasc* or cerebral next vasc* or cva* or apoplex* or poststroke* or post-stroke*):ti,ab,kw	33637
#24	((brain* or cerebr* or cerebell* or vertebrobasilar or hemispher* or intracran* or intracerebral or infratentorial or supratentorial or MCA or anterior next circulation or posterior next circulation or basal next ganglia) near/5 (isch*emi* or infarct* or thrombo* or emboli*)):ti,ab,kw	7441
#25	((brain* or cerebr* or cerebell* or intracerebral or intracran* or parenchymal or intraventricular or infratentorial or supratentorial or basal next gangli*) near/5 (haemorrhag* or hemorrhag* or haematoma* or hematoma* or bleed*)):ti,ab,kw	4649
#26	{or #1-#25}	39761
#27	[mh ^"restraint, physical"]	239
#28	[mh ^"exercise movement techniques"]	153
#29	[mh ^exercise]	11374
#30	[mh ^"exercise therapy"]	7109
#31	[mh ^immobilization]	455
#32	[mh ^"physical therapy techniques"]	3097
#33	(constrain* or restrain* or immobili*):ti,ab,kw	4614
#34	(mCIMT or CIMT or CIT or CI next therapy or forced next use):ti,ab,kw	674
#35	[mh ^"recovery of function"]	3841
#36	[mh ^splints]	406
#37	[mh ^"casts, surgical"]	441
#38	{or #27-#37}	28444
#39	[mh "upper extremity"]	6182
#40	(upper next limb* or upper next extremit* or arm or shoulder or hand or axilla or elbow* or forearm* or finger* or wrist*):ti,ab,kw	58961
#41	#39 or #40	59029



#42	#26 and #38 and #41 Publication Year from 2015 to 2016, in Cochrane Reviews (Reviews and Protocols), Other Reviews and Technology Assessments	4
#43	#26 and #38 and #41 Publication Year from 2015 to 2016, in Trials	43
#44	#42 or #43	47

Database: CINAHL via EBSCOhost
Dato: 09.03.2016
Antall treff: 23 totalt (6 SR og 19 primær)

#	Query	Results
S1	(MH "Stroke")	35,982
S2	(MH "Cerebrovascular Disorders")	3,486
S3	(MH "Basal Ganglia Cerebrovascular Disease")	22
S4	(MH "Basal Ganglia Hemorrhage")	7
S5	(MH "Cerebral Ischemia")	5,298
S6	(MH "Brain") AND (MH "Infarction")	494
S7	(MH "Dementia, Multi-Infarct")	211
S8	((MH "Middle Cerebral Artery") OR (MH "Posterior Cerebral Artery") OR (MH "Anterior Cerebral Artery")) AND (MH "Infarction")	13
S9	(MH "Hypoxia-Ischemia, Brain")	372
S10	(MH "Cavernous Sinus Thrombosis")	20
S11	(MH "Sinus Thrombosis, Intracranial")	68
S12	(MH "Subarachnoid Hemorrhage")	1,907
S13	(MH "Intracranial Embolism and Thrombosis")	872
S14	(MH "Intracranial Embolism")	188
S15	(MH "Intracranial Thrombosis")	120
S16	TI ((stroke or cerebrovasc* or brain vas* or cerebral vas* or cva* or apoplex* or	44,595



	poststroke* or post-stroke*)) OR AB ((stroke or cerebrovasc* or brain vas* or cerebral vas* or cva* or apoplex* or poststroke* or post-stroke*))	
S17	TI (((brain* or cerebr* or cerebell* or vertebrobasilar or hemispher* or intracran* or intracerebral or infratentorial or supratentorial or MCA or anterior circulation or posterior circulation or basal ganglia) N5 (isch#emi* or infarct* or thrombo* or emboli*))) OR AB (((brain* or cerebr* or cerebell* or vertebrobasilar or hemispher* or intracran* or intracerebral or infratentorial or supratentorial or MCA or anterior circulation or posterior circulation or basal ganglia) N5 (isch#emi* or infarct* or thrombo* or emboli*)))	7,654
S18	TI (((brain* or cerebr* or cerebell* or intracerebral or intracran* or parenchymal or intraventricular or infratentorial or supratentorial or basal gangli*) N5 (haemorrhag* or hemorrhag* or haematoma* or hematoma* or bleed*))) OR AB (((brain* or cerebr* or cerebell* or intracerebral or intracran* or parenchymal or intraventricular or infratentorial or supratentorial or basal gangli*) N5 (haemorrhag* or hemorrhag* or haematoma* or hematoma* or bleed*)))	5,374
S19	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18	63,237
S20	(MH "Restraint, Physical")	3,068
S21	(MH "Therapeutic Exercise")	12,660
S22	(MH "Constraint-Induced Therapy")	437
S23	(MH "Exercise")	24,671
S24	(MH "Immobilization")	2,053
S25	(MH "Physical Therapy")	21,708
S26	(MH "Splints")	1,604
S27	(MH "Casts")	1,036
S28	(MH "Taping and Strapping")	827
S29	(MH "Slings")	143
S30	TI ((constrain* or restrain* or immobil*)) OR AB ((constrain* or restrain* or immobil*))	15,971
S31	TI ((mCIMT or CIMT or CIT or "CI therapy" or "forced use")) OR AB ((mCIMT or CIMT or	704



	CIT or "CI therapy" or "forced use"))	
S32	S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31	77,209
S33	(MH "Upper Extremity+")	19,041
S34	TI ((upper limb* or upper extremit* or arm or shoulder or hand or axilla or elbow* or forearm* or finger* or wrist*)) OR AB ((upper limb* or upper extremit* or arm or shoulder or hand or axilla or elbow* or forearm* or finger* or wrist*))	64,052
S35	S33 OR S34	70,079
S36	S19 AND S32 AND S35	940
S37	(MH "Systematic Review")	25,179
S38	(MH "Literature Review")	3,554
S39	(MH "Meta Analysis")	17,215
S40	PT systematic review OR PT review OR PT meta analysis	145,515
S41	TI ((metaanalys* or meta analys*)) OR AB ((metaanalys* or meta analys*))	17,452
S42	TI (((systematic* or literature) N2 review*)) OR AB (((systematic* or literature) N2 review*))	60,135
S43	S37 OR S38 OR S39 OR S40 OR S41 OR S42	182,874
S44	S36 AND S43 Limiters - Published Date: 20150101-20161231	6
S45	(MH "Randomized Controlled Trials")	25,666
S46	PT Randomized Controlled Trial	30,361
S47	TI (randomi?ed or placebo) OR AB (randomi?ed or placebo)	94,405
S48	S45 OR S46 OR S47	105,362
S49	S36 AND S48 Limiters - Published Date: 20150101-20161231	19
S50	S44 OR S49	23



Database: Epistemonikos
Dato: 10.03.2016
Antall treff: 7 totalt (6 SR og 1 primærstudie)

((stroke OR cerebrovasc* OR brain vas* OR cerebral vas* OR cva* OR apoplex* OR poststroke* OR post-stroke* OR ischemia* OR ischaemia* OR infarct* OR thrombo* OR emboli* OR haemorrhag* OR hemorrhag* OR haematoma* OR hematoma* OR bleed*)) AND ((constrain* OR restrain* OR immobil* OR mCIMT OR CIMT OR CIT OR "CI therapy" OR "forced use")) AND (("upper limb" OR "upper limbs" OR "upper extremity" OR arm OR shoulder OR hand OR axilla OR elbow* OR forearm* OR finger* OR wrist*)) from 2015 to 2016

Database: PubMed
Dato: 10.03.2016
Antall treff: 6 (2 SR og 4 RCT)

(((((stroke OR cerebrovasc* OR brain vas* OR cerebral vas* OR cva* OR apoplex* OR poststroke* OR post-stroke* OR ischemia* OR ischaemia* OR infarct* OR thrombo* OR emboli* OR haemorrhag* OR hemorrhag* OR haematoma* OR hematoma* OR bleed*)) AND (constrain* OR restrain* OR immobil* OR mCIMT OR CIMT OR CIT OR "CI therapy" OR "forced use")) AND (("upper limb" OR "upper limbs" OR "upper extremity" OR arm OR shoulder OR hand OR axilla OR elbow* OR forearm* OR finger* OR wrist*)) AND (review* OR meta OR metaana*)) AND pubstatusaheadofprint OR (((((stroke OR cerebrovasc* OR brain vas* OR cerebral vas* OR cva* OR apoplex* OR poststroke* OR post-stroke* OR ischemia* OR ischaemia* OR infarct* OR thrombo* OR emboli* OR haemorrhag* OR hemorrhag* OR haematoma* OR hematoma* OR bleed*)) AND (constrain* OR restrain* OR immobil* OR mCIMT OR CIMT OR CIT OR "CI therapy" OR "forced use")) AND (("upper limb" OR "upper limbs" OR "upper extremity" OR arm OR shoulder OR hand OR axilla OR elbow* OR forearm* OR finger* OR wrist*)) AND (random* OR placebo* OR sham*)) AND pubstatusaheadofprint)



Database: Best Practice
Dato: 10.03.2016
Antall treff: 3

Søk:
"Constraint-induced movement therapy" OR CIMT

Treff:

[Cerebral palsy > Treatment > Details > OT/PT/speech therapy](#)

Patient group: - spastic hemiplegia

Constraint-induced movement therapy (CIMT) aims to increase spontaneous use of the affected upper ...

[Cerebral palsy > Resources > References](#)

:686-696. Hoare BJ, Wasiak J, Imms C, et al. Constraint-induced movement therapy ...

[Cerebral palsy > Treatment > Step-by-step](#)

... and performance in a randomised trial of 36 children with CP. Constraint-induced movement therapy (CIMT ...

Database: UpToDate
Dato: 10.03.2016
Antall treff: 10 (de 50 mest relevante presentert under)

Søk:
"Constraint-induced movement therapy" OR CIMT

Treff:

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- **Carotid intima-media thickness**
 - **Diagnostic and prognostic implications of coronary artery calcification detected by computed tomography**
 - **Management and prognosis of cerebral palsy**
 - **Lipid lowering with diet or dietary supplements**
 - **Clinical trials of cholesterol lowering for primary prevention of coronary heart disease**
 - **Dyslipidemia in children: Management**
 - **Dyslipidemia in children: Definition, screening, and diagnosis**
 - **Clinical trials of cholesterol lowering in patients with cardiovascular disease or diabetes**
 - **Menopausal hormone therapy and cardiovascular risk**
 - **Risk factors and development of atherosclerosis in childhood**