

SEARCH DOCUMENTATION (Appendix A)

Project title	Concussion / postconcussion
Project manager	Hana Mala
Search specialist	Kirsten Birkefoss, StepChange
Last updated	24.11.2021

Inclusion and exclusion criterias	<u>Language</u> : English, Danish, Norwegian, Swedish <u>Pub Year</u> : Concussion: 2019-2021; Postconcussion: 2010-2021 <u>Population</u> : No limits <u>Pub.types</u> : Systematic reviews, meta analyses, randomized controlled trials or controlled trals, observational studies
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Information sources

DATABASE	INTERFACE	SEARCH DATE
Medline	OVID	22.11.2021
EMBASE	OVID	22.11.2021
PsycINFO	OVID	22.11.2021
CINAHL	EBSCO	22.11.2021
Cochrane Central	Internet	22.11.2021
Pedro	Internet	22.11.2021
OTSeeker	Internet	22.11.2021

Note

- Search terms and inclusion/exclusion criterias are adapted to the different database languages.
 - Duplicates have as thoroughly as possible been removed by the help of RefWorks.
 - References found has been transferred to Covidence
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SEARCH STRATEGY

Medline

Database(s): **Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions(R)** 1946 to November 19, 2021

Search Strategy:

#	Searches	Results
1	brain injuries, traumatic/	9364
2	exp brain concussion/	10540
3	brain contusion/	108
4	((traumatic or mild or moderat* or minor) adj1 (brain or head) adj1 (injur* or trauma*1)).ti,bt,kf.	31089
5	(concussion* or concussive or concussed or contusion* or sport?-concuss*).ti,bt,kf.	11222
6	(TBI or mTBI).ti,bt,kf.	4301
7	or/1-6	46033
8	exp Post-Concussion Syndrome/	1356
9	(postconcuksi* or post-concuksi* or post concuksi* or PCS).ti,bt,kf.	2175
10	(sequela* or after-effect or late-effect or post-complication* or post-effect* or posteffect* or post-affect* or posteffect* or predict* or prognos*).ti,bt,kf.	601030
11	((late or long-term or longterm or long term or long-time or longtime or long time or post or prolonged or after-acute or post acute or post-acute or postacute or delayed) adj2 (effect* or affect* or symptom* or complication* or concuksi* or rehabilit* or recover* or treatment* or therap*)).ti,bt,kf.	68893
12	((permanent or persistent) adj1 symptom*).ti,bt,kf.	341
13	or/10-12	668109
14	7 and 13	3775
15	or/8-9,14	5542
16	exp Guideline/	36431
17	Practice guideline/	29292
18	(Guideline or Practice guideline).pt.	36431
19	(Guideline* or practice guideline* or clinical guideline* or guidance or hta or health technology Assessment* or consensus or recommendations).ti,bt,kf.	184181
20	exp "Systematic review"/	176374
21	exp Meta-analysis/	146925
22	((systematic* adj1 (review* or overview* or study or studies or search* or approach* or analysis)) or meta analy* or meta-analy* or metaanaly* or meta synthes* or meta-synthes* or metasynthes*).ti,bt,kf.	258254
23	((rapid or integrative or umbrella or scop*) adj1 review*).ti,bt,kf.	14150

24	Network Meta-Analysis/	3009
25	(network adj1 (meta analy* or meta-analy* or metaanaly*)).ti,bt,kf.	5253
26	(((multiple or mixed) adj1 (treatment* or therap*) adj1 (meta analy* or meta-analy* or metaanaly* or comparison*)) or (indirect adj1 comparison*)).ti,bt,kf.	920
27	(pool* adj1 (data or analys* or studies)).ti,ab.	25594
28	(pubmed or medline or embase or cochrane or "web of science" or "science citation index" or psycinfo or psychinfo or scopus).ti,ab.	296049
29	Cochrane.jw.	15713
30	exp randomized controlled trial/	552051
31	controlled clinical trial/	94547
32	(((random* or cluster-random* or quasi-random* or control?ed or crossover or cross-over or blind* or mask*) adj3 (trial*1 or study or studies or analy*)) or rct).ti,bt,kf.	266074
33	placebo*.ti,bt,kf.	42032
34	((patient* or person* or participant* or population* or allocat* or assign*) adj2 random*).ti,bt,ab,kf.	246228
35	exp epidemiologic studies/	2821604
36	exp observational study/	114515
37	exp comparative studies/	1903160
38	exp evaluation studies/	260306
39	exp multicenter study/	308688
40	exp twin study/	9063
41	exp validation studies/	107713
42	((Epidemiologic or cohort* or perspective or prospective or longitud* or follow-up or follow up or followup or retro-spective or retrospective or case-control* or case control* or casecontrol* or observational or cross-section* or cross section* or multi-cent* or multicent* or evaluation or comparative or intervention or provoca* or validation) adj1 (study or studies or trial*1 or analy*)).ti,bt,kf,hw.	4890154
43	or/16-42	5897138
44	7 and 43	16007
45	limit 44 to (yr=2019-2021 and (english or danish or norwegian or swedish))	4067
46	15 and 43	2560
47	limit 46 to (yr=2010-2021 and (english or danish or norwegian or swedish))	2007
48	45 or 47	5401
49	(severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI).ti,bt,kf. NOT ((severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI) AND (mild or moderate or moderate-severe)).ti,bt,kf.	3038

50	48 not 49	4866
51	(preprint or letter or news or editorial or case study or case studies or case report or conference abstract or clinical trial protocol).pt.	1966049
52	50 not 51	4774
53	protocol.ti.	62383
54	52 not 53	4695

Embase

Database(s): **Embase** 1974 to 2021 November 19

Search Strategy:

#	Searches	Results
1	traumatic brain injury/	55589
2	exp brain concussion/	6342
3	exp brain contusion/	3994
4	((traumatic or mild or moderat* or minor) adj1 (brain or head) adj1 (injur* or trauma*1)).ti,bt,kf.	45101
5	(concussion* or concussive or concussed or contusion* or sport?-concuss*).ti,bt,kf.	13820
6	(TBI or mTBI).ti,bt,kf.	8821
7	or/1-6	83659
8	exp Postconcussion Syndrome/	2648
9	(postconcussi* or post-concussi* or post concussi* or PCS).ti,bt,kf.	2919
10	(sequela* or after-effect or late-effect or post-complication* or post-effect* or posteffect* or post-affect* or posteffect* or predict* or prognos*).ti,bt,kf.	855305
11	((late or long-term or longterm or long term or long-time or longtime or long time or post or prolonged or after-acute or post acute or post-acute or postacute or delayed) adj2 (effect* or affect* or symptom* or complication* or concussi* or rehabilit* or recover* or treatment* or therap*)).ti,bt,kf.	87651
12	((permanent or persistent) adj1 symptom*).ti,bt,kf.	460
13	or/10-12	940002
14	7 and 13	6295
15	or/8-9,14	9134
16	Practice guideline/	477492
17	(Guideline* or practice guideline* or clinical guideline* or hta or health technology Assessment* or consensus or recommendations).ti,bt,kf.	216861
18	exp "Systematic review"/	320663
19	exp Meta-analysis/	230596

20	((systematic* adj1 (review* or overview* or study or studies or search* or approach* or analysis)) or meta analy* or meta-analy* or metaanaly* or meta synthes* or meta-synthes* or metasynthes*).ti,bt,kf.	315842
21	((rapid or integrative or umbrella or scop*) adj1 review*).ti,bt,kf.	14401
22	Network Meta-Analysis/	4761
23	(network adj1 (meta analy* or meta-analy* or metaanaly*).ti,bt,kf.	7143
24	((multiple or mixed) adj1 (treatment* or therap*) adj1 (meta analy* or meta-analy* or metaanaly* or comparison*)) or (indirect adj1 comparison*).ti,bt,kf.	1658
25	(pool* adj1 (data or analys* or studies)).ti,ab.	38760
26	(pubmed or medline or embase or cochrane or "web of science" or "science citation index" or psycinfo or psychinfo or scopus).ti,ab.	362602
27	Cochrane.jx.	23319
28	exp randomized controlled trial/	684566
29	controlled clinical trial/	464339
30	((random* or cluster-random* or quasi-random* or control?ed or crossover or cross-over or blind* or mask*) adj3 (trial*1 or study or studies or analy*)) or rct).ti,bt,kf.	350484
31	placebo*.ti,bt,kf.	60004
32	((patient* or person* or participant* or population* or allocat* or assign*) adj2 random*).ti,bt,ab,kf.	338130
33	Observational study/ or Multicenter study/ or Evaluation study/ or exp comparative study/ or exp case control study/ or intervention study/ or exp longitudinal study/ or prospective study/ or retrospective study/ or Follow up/ or validation study/ or cohort analysis/ or crosssectional study/ or crossover procedure/ or double blind procedure/ or single blind procedure/	5485058
34	((Epidemiologic or cohort* or perspective or prospective or longitud* or follow-up or follow up or followup or retro-spective or retrospective or case-control* or case control* or casecontrol* or observational or cross-section* or cross section* or multi-cent* or multicent* or evaluation or comparative or intervention or provoca* or validation) adj1 (study or studies or trial*1 or analys*).ti,bt,kf,hw.	4222380
35	or/16-34	7304540
36	7 and 35	29892
37	limit 36 to (yr=2019-2021 and (english or danish or norwegian or swedish))	8687
38	15 and 35	4571
39	limit 38 to (yr=2010-2021 and (english or danish or norwegian or swedish))	3970
40	37 or 39	11266
41	(severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI).ti,bt,kf. NOT ((severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI) AND (mild or moderate or moderate-severe)).ti,bt,kf.	4510
42	40 not 41	10405

43	(letter or editorial or note or conference abstract or clinical trial protocol).pt.	7029162
44	42 not 43	7830
45	44 not (clinical protocol or clinical trial protocol or case study or case studies or case report* or protocol or editorial or conference abstract or conference proceeding or conference paper).ti,kw,sh.	7248

PsycINFO

Database(s): **APA PsycInfo** 1806 to November Week 3 2021

Search Strategy:

#	Searches	Results
1	traumatic brain injury/	19486
2	exp brain concussion/	2631
3	((traumatic or mild or moderat* or minor) adj1 (brain or head) adj1 (injur* or trauma*1)).ti,id.	16762
4	(concussion* or concussive or concussed or contusion* or sport?-concuss*).ti,id.	3291
5	(TBI or mTBI).ti,id.	2003
6	or/1-5	23402
7	(postconussi* or post-concussi* or post concussi* or PCS).ti,id.	1075
8	(sequela* or after-effect or late-effect or post-complication* or post-effect* or posteffect* or post-affect* or posteffect* or predict* or prognos*).ti,id.	122042
9	((late or long-term or longterm or long term or long-time or longtime or long time or post or prolonged or after-acute or post acute or post-acute or postacute or delayed) adj2 (effect* or affect* or symptom* or complication* or concussi* or rehabilit* or recover* or treatment* or therap*)).ti,id.	12431
10	((permanent or persistent) adj1 symptom*).ti,id.	83
11	or/8-10	134025
12	6 and 11	1989
13	or/7,12	2508
14	Treatment guidelines/	7960
15	(Guideline* or practice guideline* or clinical guideline* or hta or health technology Assessment* or consensus or recommendations).ti,id.	27697
16	exp "Systematic review"/	644
17	Meta Analysis/	5086
18	((systematic* adj1 (review* or overview* or study or studies or search* or approach* or analysis)) or meta analy* or meta-analy* or metaanaly* or meta synthes* or meta-synthes* or metasynthes*).ti,id.	49194
19	((rapid or integrative or umbrella or scop*) adj1 review*).ti,id.	3894
20	(network adj1 (meta analy* or meta-analy* or metaanaly*)).ti,id.	339

21	(((multiple or mixed) adj1 (treatment* or therap*) adj1 (meta analy* or meta-analy* or metaanaly* or comparison*)) or (indirect adj1 comparison*).ti,id.	100
22	(pool* adj1 (data or analys* or studies)).ti,ab.	2695
23	exp randomized controlled trials/	1054
24	(((random* or cluster-random* or quasi-random* or control?ed or crossover or cross-over or blind* or mask*) adj3 (trial*1 or study or studies or analy*)) or rct).ti,id.	39112
25	placebo*.ti,id.	10616
26	((patient* or person* or participant* or population* or allocat* or assign*) adj2 random*).ti,ab,id.	56857
27	(followup study or longitudinal study or prospective study or qualitative study or retrospective study or treatment outcome or focus group or twin study).md.	499693
28	((Epidemiologic or cohort* or perspective or prospective or longitud* or follow-up or follow up or followup or retro-spective or retrospective or case-control* or case control* or casecontrol* or observational or cross-section* or cross section* or multi-cent* or multicent* or evaluation or comparative or intervention or provoca* or validation) adj1 (study or studies or trial*1 or analys*).ti,id,hw.	98454
29	or/14-28	686671
30	6 and 29	5265
31	limit 30 to (yr=2019-2021 and (english or danish or norwegian or swedish))	928
32	13 and 29	821
33	limit 32 to (yr=2010-2021 and (english or danish or norwegian or swedish))	605
34	31 or 33	1385
35	(severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI).ti,id. NOT ((severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI) AND (mild or moderate or moderate-severe)).ti,id.	1144
36	34 not 35	1256
37	(abstract collection or "column/opinion" or "comment/reply" or editorial or letter).dt.	210012
38	36 not 37	1251
39	38 not (clinical protocol or clinical trial protocol or case study or case studies or case report* or protocol or editorial or conference abstract or conference proceeding or conference paper).ti,id,sh.	1234

Cochrane Central

Search Name: Hjerneryst_2021

Date Run: 24/11/2021 15:40:36

Comment:

ID	Search	Hits
#1	MeSH descriptor: [Brain Injuries, Traumatic] this term only	679
#2	MeSH descriptor: [Brain Concussion] explode all trees	414
#3	MeSH descriptor: [Brain Contusion] this term only	4
#4	((traumatic or mild or moderat* or minor) NEAR/1 (brain or head) NEAR/1 (injur* or trauma*)):ti,kw	3077
#5	(concussion* or concussive or concussed or contusion* or sport-concuss* or sports-concuss*):ti,kw	1672
#6	(TBI or mTBI):ti,kw	528
#7	#1 OR #2 OR #3 OR #4 OR #5 OR #6 with Publication Year from 2019 to 2021, in Trials	1293
#8	#7 NOT (severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI):ti,kw	1185
#9	MeSH descriptor: [Post-Concussion Syndrome] explode all trees	155
#10	(postconcussi* or post-concussi* or post concussi* or PCS):ti,kw	435
#11	(sequela* or after-effect or late-effect or post-complication* or post-effect* or posteffect* or post-affect* or posteffect* or predict* or prognos*):ti,kw	59917
#12	((late or long-term or longterm or long term or long-time or longtime or long time or post or prolonged or after-acute or post acute or post-acute or postacute or delayed) NEAR/2 (effect* or affect* or symptom* or complication* or concussi* or rehabilit* or recover* or treatment* or therap*))	178120
#13	((permanent or persistent) NEAR/1 symptom*):ti,kw	83
#14	#11 OR #12 OR #13	231141
#15	#7 AND #14	389
#16	#9 OR #10 OR #15 with Publication Year from 2010 to 2021, in Trials	666
#17	#8 OR #16	1475
#18	ICTRP*:an	165225
#19	nct*:au	215898
#20	#18 or #19	381122
#21	#20 AND #17	339
#22	#17 NOT #21	1136

Cinahl

#	Query	Limiters/Expanders	Results
S34	S32 NOT S33		1,301
S33	(preprint or letter or news or editorial or case study or case studies or case report or conference abstract or protocol)		477,450
S32	S31 NOT (TI (severe traumatic brain injur* or severe traumatic head injur* or severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI) OR SU (severe traumatic brain injur* or severe traumatic head injur* or		1,417

	severe traumatic brain trauma* or severe traumatic head trauma* or severe TBI))		
S31	S29 OR S30		1,517
S30	S13 AND S28	Limiters - Published Date: 20100101-20211131; Peer Reviewed; Exclude MEDLINE records; Language: Danish, English, Norwegian, Swedish	483
S29	S5 AND S28	Limiters - Published Date: 20190101-20211131; Peer Reviewed; Exclude MEDLINE records; Language: Danish, English, Norwegian, Swedish	1,237
S28	S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27		1,800,436
S27	MW ((Epidemiologic or cohort* or perspective or prospective or longitud* or follow-up or follow up or followup or retrospective or retrospective or case-control* or case control* or observational or cross-section* or cross section* or multi-cent* or multicent* or evaluation or comparative or intervention or provoca* or validation or qualitative) N3 (study or studies or trial* or analys*))		1,199,337
S26	TI ((Epidemiologic or cohort* or perspective or prospective or longitud* or follow-up or follow up or followup or retrospective or retrospective or case-control* or case control* or observational or cross-section* or cross section* or multi-cent* or multicent* or evaluation or comparative or intervention or provoca* or validation or qualitative) N3 (study or studies or trial* or analys*))		222,445
S25	MH "Nonexperimental Studies+"		830,688
S24	((patient* or person* or participant* or population* or allocat* or assign*) N2 random*)		354,266
S23	TI Placebo* OR SU Placebo*		26,505

S22	TI (((random* or cluster-random* or quasi-random* or control#ed or crossover or cross-over or blind* or mask*) N3 (trial or trials or study or studies or analy*)) or rct) OR SU (((random* or cluster-random* or quasi-random* or control#ed or crossover or cross-over or blind* or mask*) N3 (trial or trials or study or studies or analy*)) or rct)		220,593
S21	MH "Randomized controlled trials+"		122,959
S20	(pool* N1 (data or analys* or studies))		14,043
S19	TI (((multiple or mixed) N1 (treatment* or therap*) N1 (meta analy* or meta-analy* or metaanaly* or comparison*)) or (indirect N1 comparison*))		490
S18	TI ((rapid or integrative or umbrella or scop*) N1 review*) OR SU ((rapid or integrative or umbrella or scop*) N1 review*)		10,983
S17	TI ((systematic* N1 (review* or overview* or study or studies or search* or approach* or analysis)) or meta analy* or meta-analy* or metaanaly* or meta synthes* or meta-synthes* or metasynthes*) OR SU ((systematic* N1 (review* or overview* or study or studies or search* or approach* or analysis)) or meta analy* or meta-analy* or metaanaly* or meta synthes* or meta-synthes* or metasynthes*)		176,283
S16	MH ("Systematic Review" OR "Meta Analysis")		130,663
S15	TI (Guideline* or practice guideline* or clinical guideline* or guidance or hta or health technology Assessment* or consensus or recommendations) OR SU (Guideline* or practice guideline* or clinical guideline* or guidance or hta or health technology Assessment* or consensus or recommendations)		150,441
S14	(MH "Practice Guidelines")		82,871
S13	S6 OR S7 OR S12		3,187
S12	S5 AND S11		2,398
S11	S8 OR S9 OR S10		320,907
S10	TI ((permanent or persistent) N1 symptom*) OR SU ((permanent or persistent) N1 symptom*)		333
S9	TI ((late or long-term or longterm or long term or long-time or longtime or long time or post or prolonged or after-acute or post acute or post-acute or postacute or delayed) N2 (effect*		34,372

	or affect* or symptom* or complication* or concuss* or rehabilit* or recover* or treatment* or therap*) OR SU ((late or long-term or longterm or long term or long-time or longtime or long time or post or prolonged or after-acute or post acute or post-acute or postacute or delayed) N2 (effect* or affect* or symptom* or complication* or concuss* or rehabilit* or recover* or treatment* or therap*))		
S8	TI (sequela* or after-effect or late-effect or post-complication* or post-effect* or posteffect* or post-affect* or posteffect* or predict* or prognos*) OR SU (sequela* or after-effect or late-effect or post-complication* or post-effect* or posteffect* or post-affect* or posteffect* or predict* or prognos*)		288,440
S7	TI (postconcuss* or post-concuss* or post concuss* or PCS) OR SU (postconcuss* or post-concuss* or post concuss* or PCS)		1,249
S6	(MH "Postconcussion Syndrome")		891
S5	S1 OR S2 OR S3 OR S4		20,986
S4	TI (TBI or mTBI) OR SU (TBI or mTBI)		1,430
S3	TI ((traumatic or mild or moderat* or minor) N1 (brain or head) N1 (injur* or trauma*)) OR SU ((traumatic or mild or moderat* or minor) N1 (brain or head) N1 (injur* or trauma*))		12,745
S2	TI (concussion* or concussive or concussed or contusion* or sport#-concuss*) OR SU (concussion* or concussive or concussed or contusion* or sport#-concussi*)		7,721
S1	(MH "Brain Concussion+")		5,962

PEDRO

Alle PICO'er er søgt 37 fund

Abstract & Title: Concuss* OR post-concuss* OR "traumatic brain injury" OR "traumatic brain trauma" OR "traumatic head injury" OR "traumatic head trauma"

Published since: 2019-2021

OR

Abstract & Title: post-concuss* OR postconcuss* OR post concuss*

Published since: 2010-2021

OT Seeker

3 fund

Any Field: (concuss* OR "traumatic brain injur*" OR "traumatic head injur*" OR "traumatic brain trauma*" OR "traumatic head trauma*")

Year: 2019-2021

OR

Any Field: (post-concuss* OR postconcuss* or "post concuss*")

Year: 2010-2021
