

***TRAUMATIC BRAIN INJURY MEDICAL TREATMENT GUIDELINES UPDATE 2011/2012 –
LITERATURE SEARCH STRATEGY ORGANIZATION***

All searches were done on PubMed. The limiting search criteria are recorded in the table below. The literature search included articles published from 2004 to 2012, with some searches incorporating a broader range of dates to address input from stakeholders. The search was conducted between August 2011 and June 2012. For the general literature search strategy, [click here](#).

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
Aug 2011		Diffuse axonal injury	Practice guidelines	n=1	n=0 not adult
Aug 2011		Diffuse axonal injury	Meta-analyses	n=0	n=0
Aug 2011		Diffuse axonal injury	RCT	n=4	n=1 3 too old or sample size too small
Aug 2011		Penetrating head injuries	Practice guidelines	n=2	n=0 2 outside scope of guideline
Aug 2011		Penetrating head injuries	Meta-analyses	n=2	n=0 2 outside scope of guideline

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
Aug 2011		Penetrating head injuries	RCT	n=4	n=0 4 outside scope of guideline
Aug 2011		Cerebrovascular trauma	Practice guidelines	n=12	n=5 7 outside scope of guideline
Aug 2011		Cerebrovascular trauma	Meta-analyses	n=8	n=0 8 vascular trauma outside scope of guideline
Aug 2011		Cerebrovascular trauma	RCT	n=37	n=0 37 intensive care or otherwise outside scope of guideline
Aug 2011		Traumatic cerebral hemorrhage	Practice guidelines	n=0	n=0
Aug 2011		Traumatic cerebral hemorrhage	Meta-analyses	n=0	n=0

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
Aug 2011		Traumatic cerebral hemorrhage	RCT	n=15	n=0 1 duplicate 14 outside scope of guideline
Aug 2011		Closed head injuries	Practice guidelines	n=15	n=2 13 sports concussion, pediatric, or older than 2004
Aug 2011		Closed head injuries	Meta-analyses	n=17	n=0 17 not relevant to guideline, duplicate other searches, or older than 2000
Aug 2011		Closed head injuries	RCT	n=77	Restrict to 2004-2011
Nov 2011	2004-2011	Closed head injuries	RCT	N=24	n=4 20 contact sports,

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
					musculoskeletal injuries, or intensive care
Aug 2011		Mild traumatic brain injury	Practice guidelines	n=11	n=3 8 duplicates, pediatric, or older than 2004
Aug 2011		Mild traumatic brain injury	Meta-analyses	n=13	n=4 9 dealt with issues not relevant to guideline
Aug 2011		Mild traumatic brain injury	RCT	n=61	Restricted to 2004-2011
Nov 2011	2004-2011	Mild traumatic brain injury	RCT	n=36	n=6 30 not RCT, not mTBI, pediatric, irrelevant outcome
Aug 2011		Traumatic brain injury	Meta-analysis	n=19	

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
Oct 2011		TBI and modafinil	RCT	n=2	
Oct 2011		TBI and memantine	RCT	n=0	
Oct 2011		TBI and donepezil	RCT	n=3	
Oct 2011		TBI and amantadine	RCT	n=5	n=2 3 not relevant
Oct 2011		TBI and bromocriptine	RCT	n=1	n=1
Oct 2011		TBI and physostigmine	RCT	n=1	
Oct 2011		TBI and methylphenidate	RCT	n=12	
Oct 2011		TBI and dexanabinol	RCT	n=3	
Oct 2011		TBI and rivastigmine	RCT	n=4	
Oct 2011		TBI and aminosteroids	RCT	n=0	
Oct 2011		TBI and citicoline	RCT	n=4	
Oct 2011		TBI and endocannabinoids	RCT	n=0	
Oct 2011		TBI and tacrine	RCT	n=0	
Oct 2011		TBI and cabergoline	RCT	n=0	
Oct 2011		TBI and magnesium	RCT	n=1	
Oct 2011		TBI and cyclosporin	RCT	n=5	
Oct 2011		TBI and Substance P antagonists	RCT	n=1	
Oct 2011		TBI and DDAVP	RCT	n=0	
Oct 2011		TBI and tranexamic acid	RCT	n=0	

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Oct 2011		TBI and piracetam	RCT	n=1	
Oct 2011		TBI and craniectomy	RCT	n=4	
Oct 2011		TBI and QEEG	predictive value of tests	n=2	
Oct 2011		TBI and CT	predictive value of tests	n=127	See mTBI
Oct 2011	2004-2011	TBI and CT	predictive value of tests	n=69	See mTBI
Oct 2011		TBI and MRI	predictive value of tests	n=124	See mTBI
Oct 2011	2004-2011	TBI and MRI	predictive value of tests	n=92	See mTBI
Oct 2011		TBI and brain acoustic monitor	predictive value of tests	n=1	n=1
Oct 2011		TBI and visual perception	RCT	n=17	n=0 all in research settings, not clinical settings
Oct 2011		TBI and executive function	RCT	n=10	n=1 9 duplicates of cog rehab
Oct 2011	2004-2011	TBI and rehabilitation	RCT	n=105	See cognitive rehab

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
Oct 2011		TBI and rehabilitation	RCT	n=183	See cognitive rehab
Oct 2011		TBI and cognitive rehabilitation	RCT	n=65	Restrict to 2004-2011
Oct 2011	2004-2011	TBI and cognitive rehabilitation	RCT	n=34	n=10 24 not RCT, not TBI, not adult subjects, RCT of drug rx saved elsewhere
Oct 2011		TBI and transcranial magnetic stimulation	RCT	n=3	n=0 2 on spinal cord injury; 1 on d-amphetamine in healthy volunteers
Oct 2011		TBI and induced hypothermia	RCT	n=36	n=9
Oct 2011		TBI and neuroplasticity	RCT	n=2	n=0; 1 on cardiovascular fitness after

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
					aquatic training; 1 on d-amphetamine
Nov 2011		Posttraumatic headache	RCT	n=16	n=0 16 are whiplash, PTSD, other non-TBI headache dx
Nov 2011		TBI and headache	RCT	n=5	n=0 no RCT on TBI headache in adults
Dec 2011		TBI and depression	RCT	N=31	N=15 16 relate to other conditions or are only peripherally related to TBI
Feb 2012		mTBI and MRI	Predictive value of tests	n=14	n=14

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Feb 2012		mTBI and CT	Predictive value of tests	n=15	n=15
Feb 2012		mTBI and diffusion tensor imaging	Predictive value of tests	n=7	n=0 all are duplicates of MRI search
Feb 2012		mTBI and SPECT	Predictive value of tests	n=3	N=3
Feb 2012		Neuromuscular electrical stimulation and swallowing	RCT	n=4	N=4
Mar 2012		Meniett Device	RCT	n=4	n=3
Mar 2012		tinnitus	RCT	n=0	N=0
Mar 2012		aphasia	RCT	n=3	n=0
Mar 2012	2002-2012	Spinal manipulation AND headache	RCT	n=9	n=1 (8 are either not about headache or not adult patients or do not have clinically relevant endpoints)
April 2012		Migraine AND TBI	Meta-analysis	N=1	n=0 Study was a

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					population survey of prevalence of common disorders
April 2012		Migraine AND TBI	RCT	N=0	n=0
April 2012	2007-2012	Migraine AND botulinum toxin	RCT	N=16	n=5 Focus on PREEMPT study
April 2012		Tension headache AND TBI	RCT	N=0	n=0
April 2012	2007-2012	Tension headache ANT botulinum toxin	RCT	N=3	n=0
April 2012	2002-2012	Seizure disorders AND TBI	Practice Guideline	N=1	n=1
May 2012		Whole body vibration AND TBI	RCT	N=0	n=0
May 2012		Whole body vibration AND stroke	RCT	N=7	n=0 1 small RCT (n=31) reports no effect;

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					others on irrelevant population or outcome
May 2012		Neuromuscular electrical stim AND TBI	RCT	N=2	n=0
May 2012		Functional electrical stim AND TBI	RCT	N=3	N=0
May 2012		Robotics AND TBI	RCT	N=0	N=0
May 2012		Biofeedback AND spasticity	RCT	N=5	N=1 for information but not evidence (reports on foot drop by computerized gait analysis)
May 2012		Biofeedback AND traumatic brain injury	RCT	N=5	N=1 with indirect outcome (postural symmetry)
May 2012		Laser therapy AND TBI	RCT	N=0	N=0

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June 2012		Body weight support treadmill training AND TBI	RCT	N=2	N=2 BWSST not reported effective
June 2012		Body weight support treadmill training	Meta-analysis	N=3	N=2 Cochrane did not report signif effect of treadmill training with or without body weight support
June 2012		Constraint-induced movement therapy AND TBI	RCT	N=2	N=0 1 pilot study and 1 was of children with CP
June 2012		Constraint-induced movement therapy AND stroke	Meta-analysis	N=6	N=1 Cochrane was used for evidence statement

Date of Search	Years	Search Terms	Limiting Criteria	Search Results	Selected
June 2012		Constraint-induced movement therapy AND stroke	RCT	N=63	N=2 Most directly relevant articles related to Cochrane for evidence statement