

<b>Topic:</b>	<b>HBOT SR</b>			
<i>last updated:</i>	June 18, 2021			
<b>Preliminary search completed on:</b>		Completed prelim in: PubMed (NLM)		
<b>Final search completed on:</b>	6/18/21			
<b>Searches completed by:</b>	Stephanie Clare Roth, MLIS	Biomedical & Research Services Librarian	Ginsburg Health Sciences Library, Temple University	3500 N. Broad St. Philadelphia, PA 19140
<b>Date search completed:</b>	6/18/21			
<b>Data for Prisma Flow Chart:</b>				
		<b>After deduped:</b>		
<b>Results from databases:</b>		207	119	
<b>Results from grey literature</b>		19	19	
<b>Total before duplicates removed:</b>		226		
<b># of duplicates removed from Endnote</b>			88	
<b># eligible to screen:</b>			138	
<b>Screening tool:</b>				
<b>Authorship for librarian granted?</b>	(title/affiliation above)	Form/submitted on 5/20/2021	write the search methods statement.	
<b>Acknowledgement:</b>	N/A		the manuscript.	
			associations from the manuscript.	
			associations from the manuscript.	
			review of the manuscript.	

**Database: PubMed (NLM)**

**Date limits used: Date limit, study type**

**Date last searched:**

**6/18/2021**

**Search Strategy:**

("Post-Concussion Syndrome"[Mesh] OR "Brain injuries, traumatic"[Mesh] OR "Brain Concussion"[Mesh] OR "Post concussion syndrom\*"[tiab] OR "mild concuss\*"[tiab] OR concuss\*[tiab] OR TBI[tiab] OR "mild traumatic brain injur\*"[tiab] OR "traumatic brain injur\*"[tiab] OR "mild tbi"[tiab] OR "brain concuss\*"[tiab]) AND ("Hyperbaric oxygen therap\*"[tiab] OR HBOT[tiab] OR "hyperbaric oxygen\*"[tiab] OR "Hyperbaric Oxygenation"[MeSH] OR "hyperbaric oxygen chamber\*"[tiab]) AND ("Epidemiologic studies"[MeSH] OR "case control studies"[MeSH] OR "cohort studies"[MeSH] OR "Controlled Clinical Trial"[PT] OR "Randomized Controlled Trial"[PT] OR "case control\*"[tiab] OR "cohort stud\*"[tiab] OR "cohort analys\*"[tiab] OR "follow up stud\*"[tiab] OR "observational stud\*"[tiab] OR "longitudinal stud\*"[tiab] OR "retrospective stud\*"[tiab] OR "cross sectional stud\*"[tiab] OR "epidemiologic stud\*"[tiab] OR "randomized control\*"[tiab] OR placebo\*[tiab] OR random\*[tiab] OR trial\*[tiab] OR RCT[tiab] OR "case serie\*"[tiab]) NOT ("review"[pt] OR "review\*"[ti] OR "systematic review"[pt])

Filters: from 2016/1/1 - 3000/12/12

**43 Results**

**Database: Embase (Elsevier)**

**Date last searched:**

**Search Strategy:**

('postconcussion syndrome'/exp OR 'postconcussion syndrome' OR 'traumatic brain injury'/exp OR 'traumatic brain injury' OR 'brain concussion'/exp OR 'brain concussion' OR 'post concussion syndrom\*':ti,ab OR concuss\*':ti,ab OR tbi:ti,ab OR (('mild traumatic brain\*' NEAR/3 injur\*):ti,ab) OR (('traumatic brain' NEAR/3 injur\*):ti,ab) OR ((mild\* NEAR/3 tbi\*):ti,ab) OR ((brain\* NEAR/3 concuss\*):ti,ab)) AND (((('hyperbaric oxygen\*' NEAR/3 therap\*):ti,ab) OR hbot:ti,ab OR 'hyperbaric oxygen\*':ti,ab OR 'hyperbaric chamber'/exp OR 'hyperbaric oxygen therapy'/exp OR (('hyperbaric oxygen\*' NEAR/3 chamber\*):ti,ab)) AND ('epidemiology'/exp OR 'cohort analysis'/exp OR 'controlled clinical trial'/exp OR 'randomized controlled trial'/exp OR 'case control study'/exp OR 'follow up'/exp OR 'observational study'/exp OR 'case control\*':ti,ab OR 'cohort stud\*':ti,ab OR 'cohort analys\*':ti,ab OR 'follow up stud\*':ti,ab OR 'observational stud\*':ti,ab OR 'longitudinal stud\*':ti,ab OR 'retrospective stud\*':ti,ab OR 'cross sectional stud\*':ti,ab OR 'epidemiologic stud\*':ti,ab OR 'randomized control\*':ti,ab OR placebo\*':ti,ab OR random\*':ti,ab OR trial\*':ti,ab OR rct:ti,ab OR 'case serie\*':ti,ab) NOT (review\*':ti OR 'systematic review\*':ti OR 'systematic review'/exp) AND [1-1-2016]/sd NOT [1-1-2022]/sd

limits used: Date limit, study type

**Results: 76**

**6/18/2021**

**Database:** Cochrane CENTRAL (Wiley)

**Search Strategy:**

**Date last searched :**

((Post\* NEXT concussion\* NEXT syndrom\*):ti,ab,kw OR  
(mild\* NEXT concuss\*):ti,ab,kw OR concuss\*:ti,ab,kw OR  
TBI:ti,ab,kw OR ("mild traumatic brain" NEXT  
injur\*):ti,ab,kw OR (mild\* NEXT tbi\*):ti,ab,kw OR (brain\*  
NEXT concuss\*):ti,ab,kw) AND ((Hyperbaric\* NEXT  
oxygen\* NEXT therap\*):ti,ab,kw OR HBOT:ti,ab,kw OR  
(hyperbaric\* NEXT oxygen\*):ti,ab,kw OR (hyperbaric\*  
NEXT oxygen\* NEXT chamber\*):ti,ab,kw)

6/18/21

**limits used:** with Publication Year from 2016 to 2021, in Trials

**Results:**

**32**

**Database name: Web of Science (Clarivate Analytics)**

**Date last searched:**

**6/18/21**

**Search Strategy**

TS=("post concussion syndrom\*" OR "mild concuss\*" OR concuss\* OR TBI OR "mild traumatic brain injur\*" OR "mild tbi\*" OR "brain concuss\*") AND TS=("Hyperbaric oxygen therap\*" OR HBOT OR "hyperbaric oxygen\*" OR "hyperbaric oxygen chamber\*") AND TS=("case control\*" OR "cohort stud\*" OR "cohort analys\*" OR "follow up stud\*" OR "observational stud\*" OR "longitudinal stud\*" OR "retrospective stud\*" OR "cross sectional stud\*" OR "epidemiologic stud\*" OR "randomized control\*" OR placebo\* OR random\* OR trial\* OR RCT OR "case serie\*") NOT TS=(review\* OR "systematic review") Timespan=2016-2021

Limits used: Date limit, study type

**Results: 40**

Database name: CINAHL (EbscoHost)

Date last searched: 6/18/21

Search Nu Search Strategy:

S1 ((MH "Post-Concussion Syndrome" OR MH "Brain Concussion+" OR ((MH "Brain Injuries+" ) AND ( ( TI traumatic\* OR AB traumatic\* ) ) AND (TI traumatic\* OR AB traumatic\*)) OR (TI "Post concussion syndrom\*" OR AB "Post concussion syndrom\*") OR (TI "mild concuss\*" OR AB "mild concuss\*") OR (TI concuss\* OR AB concuss\*) OR (TI TBI OR AB TBI) OR (TI "mild traumatic brain injur\*" OR AB "mild traumatic brain injur\*") OR (TI "mild tbi\*" OR AB "mild tbi\*") OR (TI "brain concuss\*" OR AB "brain concuss\*"))

S2 ((MH "Hyperbaric Oxygenation") OR (TI "Hyperbaric oxygen therap\*" OR AB "Hyperbaric oxygen therap\*") OR (TI HBOT OR AB HBOT) OR (TI "hyperbaric oxygen\*" OR AB "hyperbaric oxygen\*") OR (TI "hyperbaric oxygen chamber\*" OR AB "hyperbaric oxygen chamber\*"))

S3 ((MH "Epidemiologic studies+" ) OR (MH "case control studies+" ) OR (MH "Prospective Studies+" ) OR (MH "Clinical Trials+" ) OR (MH "Randomized Controlled Trials+" ) OR (MH "Experimental Studies+" ) OR (MH "Nonexperimental Studies+" ) OR (TI "case control\*" OR AB "case control\*") OR (TI "cohort stud\*" OR AB "cohort stud\*") OR (TI "cohort analys\*" OR AB "cohort analys\*") OR (TI "follow up stud\*" OR AB "follow up stud\*") OR (TI "observational stud\*" OR AB "observational stud\*") OR (TI "longitudinal stud\*" OR AB "longitudinal stud\*") OR (TI "retrospective stud\*" OR AB "retrospective stud\*") OR (TI "cross sectional stud\*" OR AB "cross sectional stud\*") OR (TI "epidemiologic stud\*" OR AB "epidemiologic stud\*") OR (TI "randomized control\*" OR AB "randomized control\*") OR (TI placebo\* OR AB placebo\*) OR (TI random\* OR AB random\*) OR (TI trial\* OR AB trial\*) OR (TI RCT OR AB RCT) OR (TI "case serie\*" OR AB "case serie\*"))

S4 S1 AND S2 AND S3

S5 S4 NOT ((MH "Literature Review+" ) OR (TI review OR TI "systematic review" OR AB review OR ABI "systematic review"))

- Published Date: 20160101-20220131

**Results: 7**



**Limits used: Date, study type**

Database name: SPORTDiscus (EbscoHost)

Date last searched: 6/18/21 Search Number:



S1

S2

S3

S4

S5

Result: 1

## Search Strategy:

((("POSTCONCUSSION syndrome" OR DE "BRAIN concussion" OR ((DE "Brain Injuries+") AND ( (TI traumatic\* OR AB traumatic\*) ) OR DE "CHRONIC traumatic encephalopathy") OR (TI "Post concussion syndrom\*" OR AB "Post concussion syndrom\*") OR (TI "mild concuss\*" OR AB "mild concuss\*") OR (TI concuss\* OR AB concuss\*) OR (TI TBI OR AB TBI) OR (TI "mild traumatic brain injur\*" OR AB "mild traumatic brain injur\*") OR (TI "mild tbi\*" OR AB "mild tbi\*") OR (TI "brain concuss\*" OR AB "brain concuss\*"))

((DE "HYPERBARIC oxygenation") OR (TI "Hyperbaric oxygen therap\*" OR AB "Hyperbaric oxygen therap\*") OR (TI HBOT OR AB HBOT) OR (TI "hyperbaric oxygen\*" OR AB "hyperbaric oxygen\*") OR (TI "hyperbaric oxygen chamber\*" OR AB "hyperbaric oxygen chamber\*"))

((DE "EPIDEMIOLOGY" OR DE "COHORT analysis") OR (TI "case control\*" OR AB "case control\*") OR (TI "cohort stud\*" OR AB "cohort stud\*") OR (TI "cohort analys\*" OR AB "cohort analys\*") OR (TI "follow up stud\*" OR AB "follow up stud\*") OR (TI "observational stud\*" OR AB "observational stud\*") OR (TI "longitudinal stud\*" OR AB "longitudinal stud\*") OR (TI "retrospective stud\*" OR AB "retrospective stud\*") OR (TI "cross sectional stud\*" OR AB "cross sectional stud\*") OR (TI "epidemiologic stud\*" OR AB "epidemiologic stud\*") OR (TI "randomized control\*" OR AB "randomized control\*") OR (TI placebo\* OR AB placebo\*) OR (TI random\* OR AB random\*) OR (TI trial\* OR AB trial\*) OR (TI RCT OR AB RCT) OR (TI "case serie\*" OR AB "case serie\*"))

S1 AND S2 AND S3

S4 NOT ((TI review OR TI "systematic review" OR AB "systematic review" OR AB review))

- Published Date: 20160101-20220131

**Limits used: Study type, Date limit**

Database name: PsycInfo (EbscoHost)

Date last searched: 6/18/21

Search Strategy:

Limits used:

- S1 concuss\*"))  
S2 OR AB "hyperbaric oxygen chamber\*")  
S3 serie\*" OR AB "case serie\*")  
S4 S1 AND S2 AND S3  
S5 "systematic review" OR AB review OR AB "systematic review")  
- Published Date: 20160101-20220131

Results: 8

**Study type, Date limit**

**Grey Lit. Source:** [Clinicaltrials.gov](https://clinicaltrials.gov)

**Search Strategy:**

**Date last searched :**

brain Concussion OR traumatic brain injury | Completed  
Studies | Hyperbaric oxygen

6/18/2021

**limits used:**

completed studies

**Results:**

**12**





**Grey Lit. Source:** American College of Sports Medicine 2020 conference abstracts

**Search Strategy:**

(Hyperbaric oxygen)

**Date last searched :**

6/18/2021

**limits used:**

**Results:**

**2**

**Grey Lit. Source:** American College of Hyperbaric Medicine 2020 conference speaker presentations

**Search Strategy:**

(brain)

**Date last searched :**

6/18/2021

**limits used:**

**Results:**

1