

Supplementary files

S1.

Design	Population	Concept	Context
1. All information sources and types to be considered.	1. The youth athlete (Aged 19 and under)	4 Primary research providing outcome data on the pitch side, primary and secondary care medical management of sport related concussion in youth sport.	8 School/youth sports clubs and primary/secondary healthcare services worldwide.
2. Full text only	2. Include worldwide youth population		
3. Available in English language	3. Youth athletes who have sustained a concussion.		9 Inclusion of players aged 19 and under in higher education.
4. All publication years to be considered	4. Exclude non-sports related concussion.	5 Primary research providing outcome data on training and match day concussion recognition and removal strategies.	10 International, regional and local guidelines on youth concussion management.
		6 Primary research studies providing outcome data on concussion medical management innovation.	
		7 Exclude studies discussing concussion diagnostics.	

S1. Study PCC

Keyword Search: Title or Abstract	TI ((Concuss* OR Brain N3 Concussion OR Head N3 Injur* OR Brain N3 Injur* OR Mild N3 traumatic N3 brain N3 injury OR mTBI OR Sub-concussive) AND (Protocol OR Guidance OR Management OR Return N3 to N3 play OR Graded N3 return N3 to N3 play OR GRTP OR Advice OR Care OR Clinical N3 decision OR Clinical N3 Management OR Outcome OR Response OR Medical N3 Management OR Pathway) AND (Youth OR Youth N3 player OR Youth N3 athlete OR Young N3 athlete OR Young N3 person OR Adolescen* OR Youth N3 Player OR Teen* OR Teen* N3 athlete OR Paediatric* OR Children)) OR AB ((Concuss* OR Brain N3 Concussion OR Head N3 Injur* OR Brain N3 Injur* OR Mild N3 traumatic N3 brain N3 injury OR mTBI OR Sub-concussive) AND (Protocol OR Guidance OR Management OR Return N3 to N3 play OR Graded N3 return N3 to N3 play OR GRTP OR Advice OR Care OR Clinical N3 decision OR Clinical N3 Management OR Outcome OR Response OR Medical N3 Management OR Pathway) AND (Youth OR Youth N3 player OR Youth N3 athlete OR Young N3 athlete OR Young N3 person OR Adolescen* OR Youth N3 Player OR Teen* OR Teen* N3 athlete OR Paediatric* OR Children))
OR	
MeSH Terms	" OR MH (((MH "Adolescent") OR (MH "Child") OR (MH "young adult")) AND ((MH "Brain Contusions") AND (MH "Brain Concussion") OR (MH "Postconcussion Syndrome")) AND ((MH "Case Management") OR (MH "Clinical Protocols")))
Limiters Applied	None

S2. Search strategy