



Lead Injuries

Head Injuries - When are they serious?



Head injuries in sport continue to be a major concern. This concern has led the Scottish Football Association to announce that they are set to introduce a ban on children under the age of 12 heading the ball in training sessions.

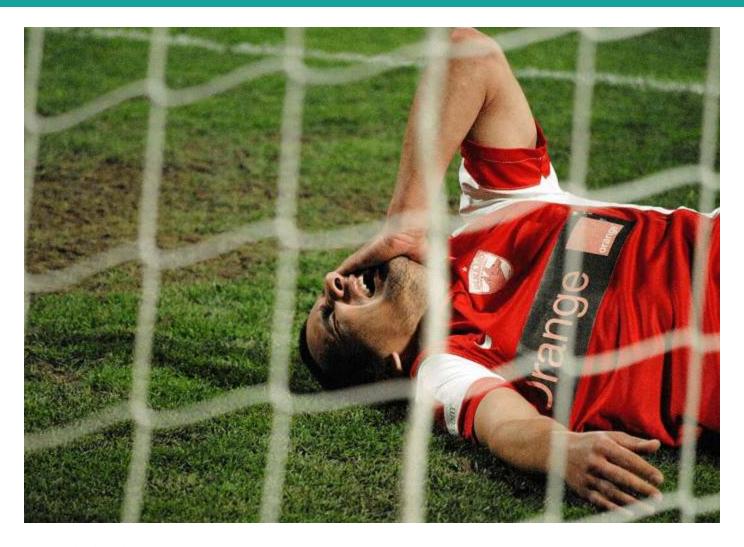
The ban has resulted from research demonstrating a proven correlation between football and dementia. A report has shown that former professional footballers are 3.5 times more likely to die with dementia and other serious neurological diseases.

The Scottish FAs are quick to emphasise that their ban on under-12s heading the ball in training should not lead people to assume it is therefore safe for older children. Repeated head injuries are not good for our brains! Angus Hunter from Stirling University stated that when young people head the ball it causes electrical disturbances in the brain, disruption to muscles and a reduction in memory recall. When children head the ball in training, they are repeating the event multiple times and this can adversely affect their brains.

A similar ban was put in place in the US since 2015. But Scotland would become the first European country to impose a restriction on head contact.

Dr Angus Hunter suggested that a softer lighter ball could cause less potential damage. This would reduce rates of concussions, which is far greater in children, and improve memory recall.

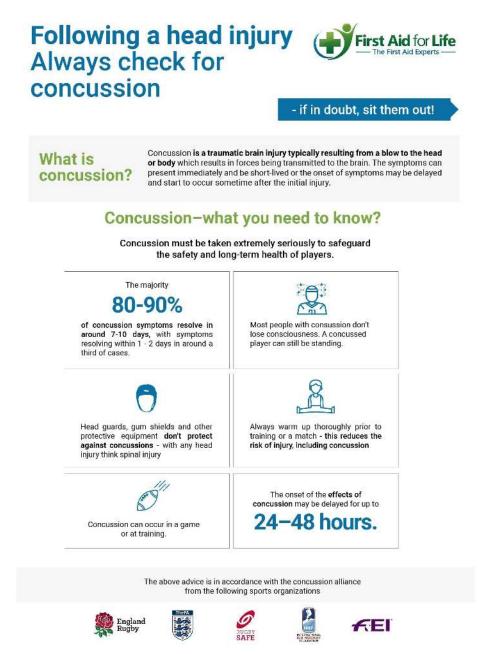
Old style leather footballs were particularly damaging, especially when wet.



Head injuries

When people bang their heads, it can be difficult to tell whether they have done any serious damage. Most head injuries are not serious and simply result on a bump or bruise. However severe, or repeated head injuries can cause damage to the brain.

Fortunately, the majority of falls or blows to the head result in injury to the scalp only and this is more frightening than life threatening. As the head and face are served by numerous blood vessels, these injuries bleed profusely and can be very scary!



It is very important to look out for anything unusual following a head injury as a severe bang on the head could cause swelling and damage to the brain and it is vitally important that you recognise any early and worrying signs of increased pressure on the brain.

Not sure what the signs are? We'll tell you now.

First steps in the event of a head injury

If a **baby** has more than even a very minor head injury, call an ambulance immediately.

For a **child**, look out for:

- Loss of consciousness
- Intense crying
- Trouble walking
- Complains of head and neck pain

If you see these signs, call 999 or 112.

If the incident has occurred with a child close to bedtime or naptime and they fall asleep soon afterwards, check in every few hours and look out for twitching limbs, disturbances in colour or strange breathing.

It is perfectly fine for your child to go to sleep providing you are certain that they are behaving normally and there are no unusual signs or symptoms. There is no need to keep a child awake after a head injury.

You should always trust your instincts - if you aren't comfortable with your child's appearance, rouse your child. They should object to this and attempt to resettle. If he or she doesn't protest, try to wake them fully. If your child can't be woken, or shows any symptoms of a **brain injury**, call an ambulance immediately.

If the casualty is **not** an infant, has **not** lost consciousness, and is alert and behaving normally after the fall or blow:

- Talk to the casualty and check that they are fully alert and oriented. They should know where they are and what happened.
- Apply a wrapped ice pack or instant cold pack to the injured area for 10 minutes.
- Observe them carefully for the next 48 hours. No one should go home to an empty house for the 48 hours
 following a severe head injury. If you notice any of the signs of brain injury (see below), phone an
 ambulance immediately.
- If the casualty is unusually drowsy or can't be woken, or they show any symptoms of a brain injury (see below) call an ambulance immediately. People can go to sleep following a head injury, but only if they appear to be completely alert and showing no signs of confusion, losing consciousness or any other symptoms. If worried seek medical attention immediately.



Signs and symptoms to look out for following a Head Injury

The following signs and symptoms can affect the injured immediately, but it is also possible that they take a few days to emerge. Keep a close eye on the casualty and seek medical advice if concerns arise.

Observed by others

- Appears stunned or dazed.
- Loses consciousness (even briefly).
- Is confused about events.
- Thinking and concentrating difficulties.
- Difficulties in recalling events prior to or after accident.
- Behaviour or personality changes.
- Questions are answered slowly and/or repeated.
- Has difficulty remembering things and organising themselves



Experienced by Casualty

- Headache or pressure in the head.
 - ▶ Balance problems or dizziness.
 - ▶ Nausea/Vomiting.
 - Sensitivity to light or noise.
 - Does not feel "right".
 - Blurred vision or double vision.
- Feel Dazed, sluggish, groggy or foggy.
- Difficulty concentrating or remembering
- Feeling irritable, sad, nervous or generally more emotional.
 - Sleep disturbances.

@www.firstaidforlife.org.uk

Coaches and first aiders should be confident to:

Remove - any player who has experienced a head injury and shows any of the below symptoms should be

removed from play immediately

Remember RugbySafe's mantra: IF IN DOUBT, LEAVE THEM OUT!

Recognise - learn the signs of concussion.

Only about 10% of the people experiencing concussion will actually lose consciousness. That means 90% of

people who have experienced concussion will remain conscious.

Look out for the more obvious signs such as a dazed or blank expression or tonic arm extension following the

blow to the head, along with the list of other symptoms.

Applying a wrapped ice pack will reduce superficial bruising and swelling – but has no effect on any brain

recovery. If a severe head injury has been sustained and you are concerned about the casualty's spine; they should

only be removed from the field by someone appropriately trained to do so. If worried and no one appropriate to

help; reassure the casualty, support their head in a neutral position, stop the game – or move to another pitch and

await removal of the casualty by paramedics.

Rest - for at least 24 hours for an adult and 48 for a child or adolescent.

Recover - ensure the player remains completely symptom free before returning to any form of play.

Return - return to play using the gradual return to activity and sport (GRAS) method.

Following a head injury Always check for concussion



if in doubt, sit them out!

The immediate do's and don'ts following a suspected concussion:



- Remove from play immediately.
- Get assessed by a health care professional within 24 hours of the incident to ensure that there are no significant underlying medical issues.
- Rest & Sleep good for recovery.

DO NOT

- Be left alone in the first 24 hours.
- Onsume alcohol in the 24 hours and/or until symptom free.
- Orive a motor vehicle in the first hours and/or until symptom free.

Following a suspected concussion what's your role?



Coaches

- Safely remove player from the field of play.
- Observe or assign responsible adult to monitor player.
- If player is U19 and below. contact parent to inform of
- Ensure player gets home safely.
- Ensure there is someone to monitor the player over the next 24-48 hours (e.g. parent or family member).
- Ensure an injury report form is completed and stored by the club appropriately. Follow the appropriate GRAS (Gradual Return to Activity and Sport). (Adult or U19 and below).



Players

- Stop playing / training immediately if you experience any of the symptoms of concussion.
- Be honest with how you feel and report to coach or parent.
- Inform your school / work.
- Follow the appropriate GRAS (Gradual Return to Activity and Sport). (Adult or U19 and below).

During training and matches always look out for teammates and encourage them to be honest and report if they experience any concussion symptoms.



Parents & **Family**

- Ensure you have full details of the incident.
- Get the player medically assessed.
- Monitor player for signs and symptoms of concussion for 24-48hours.
- Encourage initial rest (both body and mind) for the first 24-48.
- Inform school / work / other sports of the suspected concussion.
- Support the player to follow the appropriate GRAS (Gradual Return to Activity and Sport). (Adult or U19 and below).

The above advice is in accordance with the concussion alliance from the following sports organizations









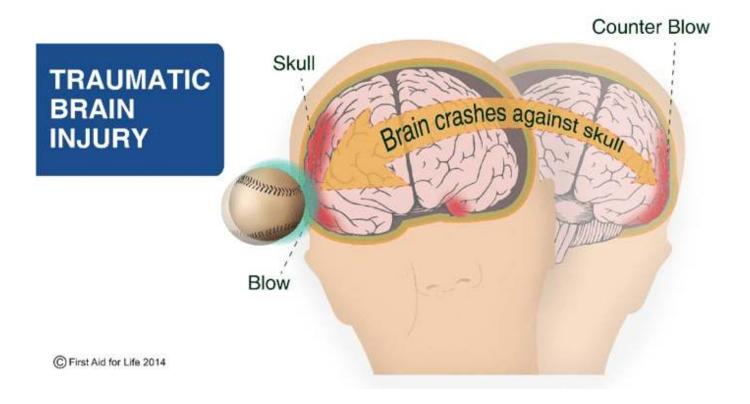


Suspected brain injury

The brain is cushioned by cerebrospinal fluid, however a severe blow to the head may knock the brain into the side of the skull or tear blood vessels.

It can be difficult to determine the level of injury, so it's always wise to discuss a head injury with your doctor. A clear indicator of a more serious injury is when someone loses consciousness or has signs of confusion. These symptoms can come on at any time from immediately after the accident to a couple of days later. If it is a child that is injured it is sensible for them to sleep in the same room as you for a couple of nights following a head injury.





Symptoms after a head injury might include:

- Loss of consciousness
- A persistent headache
- Seizures
- Dilation of pupils
- Fluid coming out of the nose or ears

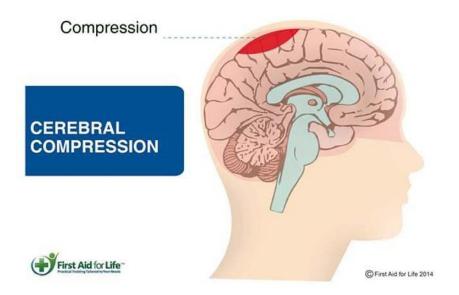
If you see any of these symptoms, call an ambulance.

Compression and concussion

Compression

If the brain is injured, it will swell and may bleed, as with an injury to any other part of the body. However, because the brain is contained within the skull, it can only press against other parts of the brain and against the spinal cord. This results in compression of these vital organs and can be fatal.

Compression can happen almost immediately, or up to 48 hours after the head injury; even longer if they hit their head again.



Concussion

A concussion is a reversible form of brain injury.

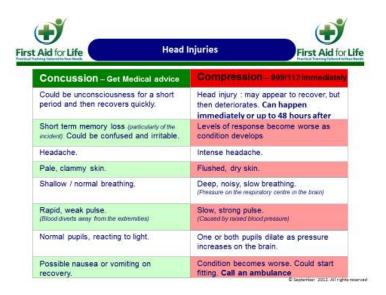
Following a severe blow to the head, it is usual to experience:

- Pain
- Possible short-term memory loss
- Dizziness
- Confusion

Someone with concussion should always be monitored to check for signs of compression. If you see anything unusual at all or are worried about their condition, you should phone for an ambulance. **Trust your instincts.**

Do not leave anyone who has had a severe head injury on their own. They should have a responsible adult with them who understands the signs of brain injury and what to look out for.

When looking after children, you should ensure that all carers are aware that the child has hit their head. The child should ideally sleep in the same room as their parents for the next couple of nights.



Skull fracture

You should suspect a skull fracture if:

- They have watery blood coming from their ears or nose
- They have bruising around their eyes, or behind an ear
- There's an open wound on their head

If they are conscious:

- Keep them as still as you can and don't let them twist as they could also have a spinal injury
- Call emergency services immediately

If they are unresponsive and breathing normally:

- Put them in the recovery position
- Protect their spine and do your best to not let them twist
- If they are unconscious and not breathing, start CPR

When to call an ambulance

Call an ambulance if someone shows any of these symptoms:

- Unconsciousness
- Abnormal breathing
- Obvious serious wound or suspected skull fracture
- Bleeding or clear fluid from the nose, ear, or mouth
- Disturbance of speech or vision
- Pupils of unequal size
- Weakness or paralysis
- Dizziness
- Neck pain or stiffness
- Fitting
- Vomiting more than two to three times it is not unusual for children to vomit immediately after an accident as a response to pain, so do not panic if an injured child is sick just once after a head injury.

What to do if someone is unconscious:

- If they are breathing roll them into the recovery position (on their side so that their tongue falls forward in their mouth and any vomit can drain away), trying not to twist their neck or spine at all. Any head injury could have caused spinal damage as the head recoils from the blow.
- If they are not breathing start CPR.
- Call for an ambulance.

Sports head injuries: when to play on

We have all witnessed the inevitable clash of heads during a match. It is often difficult for the coach and match officials to know exactly what to do. This uncertainty is compounded by the player, who may hide the extent of their injury in order to be allowed to play on.

There has been considerable research demonstrating the correlation between football and dementia. Former professional footballers are 3.5 times more likely to die with dementia and other serious neurological diseases.

The RFU guidance makes it easier for everyone to do the right thing and ensure the player has every opportunity to make a full recovery. This section is written in accordance with the latest guidance from the RFA, England Rugby, and the NHS, as of September 2023.

Initial symptoms of concussion – in football and rugby the most common symptoms that you may see on the pitch are the following:

- Loss of consciousness
- Slow response time
- Incoordination
- Grabbing, clutching head
- Vomiting
- More emotional than usual
- Tonic posturing the player might lie rigid or motionless because of muscle spasms

There are other symptoms that you might need to ask the player about:

- Headache
- Blurred vision
- Fatigue
- Drowsiness
- Memory impairment
- Sensitivity to light or sound
- Difficulty concentrating
- Nausea
- Dizziness

Concussion can also affect someone's mood, balance, sleep, thinking, concentration and senses. Most symptoms resolve in 7-10 days and many much sooner.

- Don't make things worse important to take seriously and rest
- Do not risk injury again
- Rest your brain = lots of sleep, avoid reading, screens and sports for at least 24 hours / 48 hours

Children and adolescents may need one or 2 days off school and a gradual return to academic study. They can start light reading and small amounts of screen time but should monitor and stop if there are signs of any recurrence of symptoms.

At least 2 weeks with no training to give the brain a chance to fully recover.

If there are no symptoms, players can then start the gradual return to activity and sport - GRAS

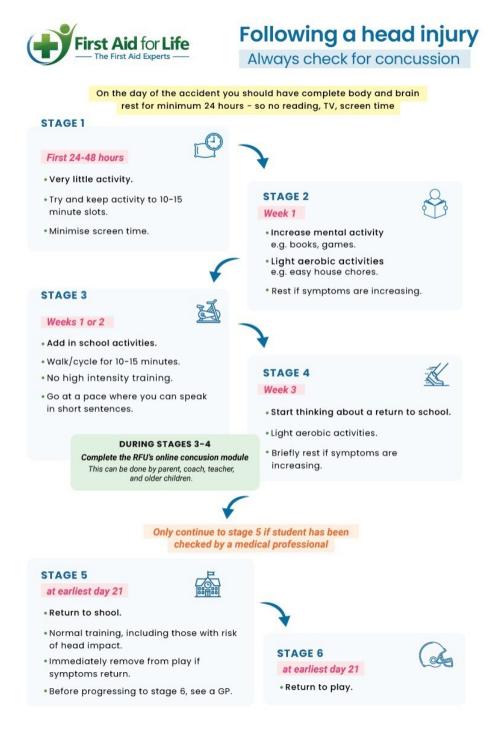
- 24 hours per stage (48 hours for children and adolescents) go back a stage if symptoms occur
- Light aerobic exercise
- Sport specific exercise
- Non-contact training
- Full contact practice

19 days is the earliest that an adult can return to play

23 days is the earliest that a child or adolescent can return to play



Gradual Return to Activity and Sport



First Aid for Life provides a free GRAS form to easily track recovery. Please email us at emma@firstaidforlife.org.uk to receive one.

Recovery time is vital

It may take 4-6 weeks before a player is fully fit and back to competitive play. This may seem a long time away from the game. However, it is comparable to the recovery time following a soft tissue injury and your brain is so important to every aspect of life, that it is vital we take head injuries seriously.

The RFU have a superb online training course specific to parents, players, teachers and coaches. http://www.englandrugby.com/my-rugby/players/player-health/concussion-headcase/

The Football Association have the following:

http://www.thefa.com/get-involved/coach/concussion

It is strongly advised that you attend a Practical First Aid course to understand what to do in a medical emergency. Please visit firstaidforlife.org.uk or call 0208 675 4036 for more information about our courses.

Onlinefirstaid.com have developed unique on-line first aid training to allow you to learn these vital skills at a time and place that suits you.

First Aid for life provides this information for guidance and it is not in any way a substitute for medical advice. First Aid for Life is not responsible or liable for any diagnosis made, or actions taken based on this information.

You can book an in person course here: https://firstaidforlife.org.uk/