

# Brain injury classification

[Acute brain injury](#)

[Acquired Brain Injury](#)

[Anoxic brain injury](#)

[Early brain injury](#)

[Pediatric Brain Injury](#)

Brain injuries can be classified in various ways based on different criteria such as the cause, severity, and location of the injury.

## Common classifications

Based on Cause:

[Traumatic Brain Injury](#) (TBI): Caused by an external force or trauma to the head, such as a blow or impact. [Non-Traumatic Brain Injury](#): Caused by internal factors, such as a stroke, tumor, infection, or lack of oxygen.

[Ischemic brain injury](#)

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Based on [Focal](#) or Diffuse Injury:

[Focal Injury](#): Affecting a specific area of the brain. Examples include contusions (bruises) or hematomas (blood clots).

[Diffuse brain injury](#): Affecting more widespread areas of the brain, such as in cases of diffuse axonal injury.

Based on Location:

[Frontal Lobe Injury](#): Affects aspects of personality, behavior, and executive functions.

[Temporal Lobe Injury](#): May impact memory and hearing.

[Parietal Lobe Injury](#): Can affect sensory functions and spatial awareness.

[Occipital Lobe Injury](#): May result in visual disturbances.

[Brain Stem Injury](#): Can have serious consequences for basic life functions like breathing and heart rate.

Based on Primary and Secondary Injuries:

**Primary brain injury:** The initial damage caused by the traumatic event.

**Secondary brain injury:** Subsequent damage that occurs as a result of the body's response to the primary injury, such as inflammation or swelling.

Based on Time of Onset:

**Acute Brain Injury:** Immediate consequences of the injury.

**Chronic Brain Injury:** Long-term effects that may develop over time.

Based on Specific Conditions:

**Concussion:** A mild form of TBI with temporary symptoms.

**Contusion:** Bruising of the brain tissue.

**Hematoma:** Collection of blood outside blood vessels.

**Diffuse Axonal Injury (DAI):** Widespread damage to nerve fibers in the brain.

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Its practical value is often limited when applied to prognosis evaluation in brain injury. Proteomics technology can make up for this deficiency and provide a reference for the prevention and treatment of brain injury <sup>1)</sup>

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<sup>1)</sup>

Liu W, Wen Z, Shi Y, Bao J, Ma S, Liang J. Research progress in the application of proteomics technology in brain injury. Biomed Chromatogr. 2023 Nov 28:e5785. doi: 10.1002/bmc.5785. Epub ahead of print. PMID: 38014505.

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