

# Diffuse axonal involvement/PGS

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Template:PGS

**Diffuse axonal injury** (DAI) is a very severe multiple axon injury that is severed by rotational and translational forces acting on the head (see figure), most commonly in the *corpus callosum* and brainstem. The severity of the subsequent condition is exacerbated by the fact that the interruption of axons **leads to potassium leaching**, which has a toxic effect on the surrounding brain tissue. In DAI, diagnosis is based on history of head injury, clinical condition (severe impairment of consciousness) and MRI imaging (CT is **unhelpful**, changes are mostly below its level of resolution). It is the most common cause of the subsequent vegetative state in trauma patients.

## Source

- ws:Difúzní axonální postižení/PGS



Scheme of the formation of diffuse axonal damage.