

Biomarkers could be key to blood test for concussions

There is [no single distinguishing feature](#) of a concussion. Most of these symptoms can also be present in other types of injury or [disease](#). In many cases, even brain scans of concussed patients, such as MRI or CT scans, [appear normal](#). As a result, researchers are racing to find alternative methods to better diagnose concussions.

Recently, there has been new hope that specific [biomarkers](#) – objective and quantitative indicators of disease, illness, or injury – could signify someone has developed a concussion. The use of biomarkers to diagnose diseases has already proven successful for many types of cancers and [heart damage](#). These biomarkers include levels of certain proteins or molecules in blood, urine, or even [saliva](#).

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Perhaps someday all of these [potential biomarkers](#) could be used together: GFAP and UCH-L1 to determine the presence of a brain bleed, and BDNF to provide insight into the severity of the concussion itself. Going forward, it will be important for scientists work together to [define particular symptoms](#) of a concussion, both on a biological and physiological level. The more specific we get, the easier it will be to define biomarkers, and to identify clusters of physiological changes in order to define the disease.

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