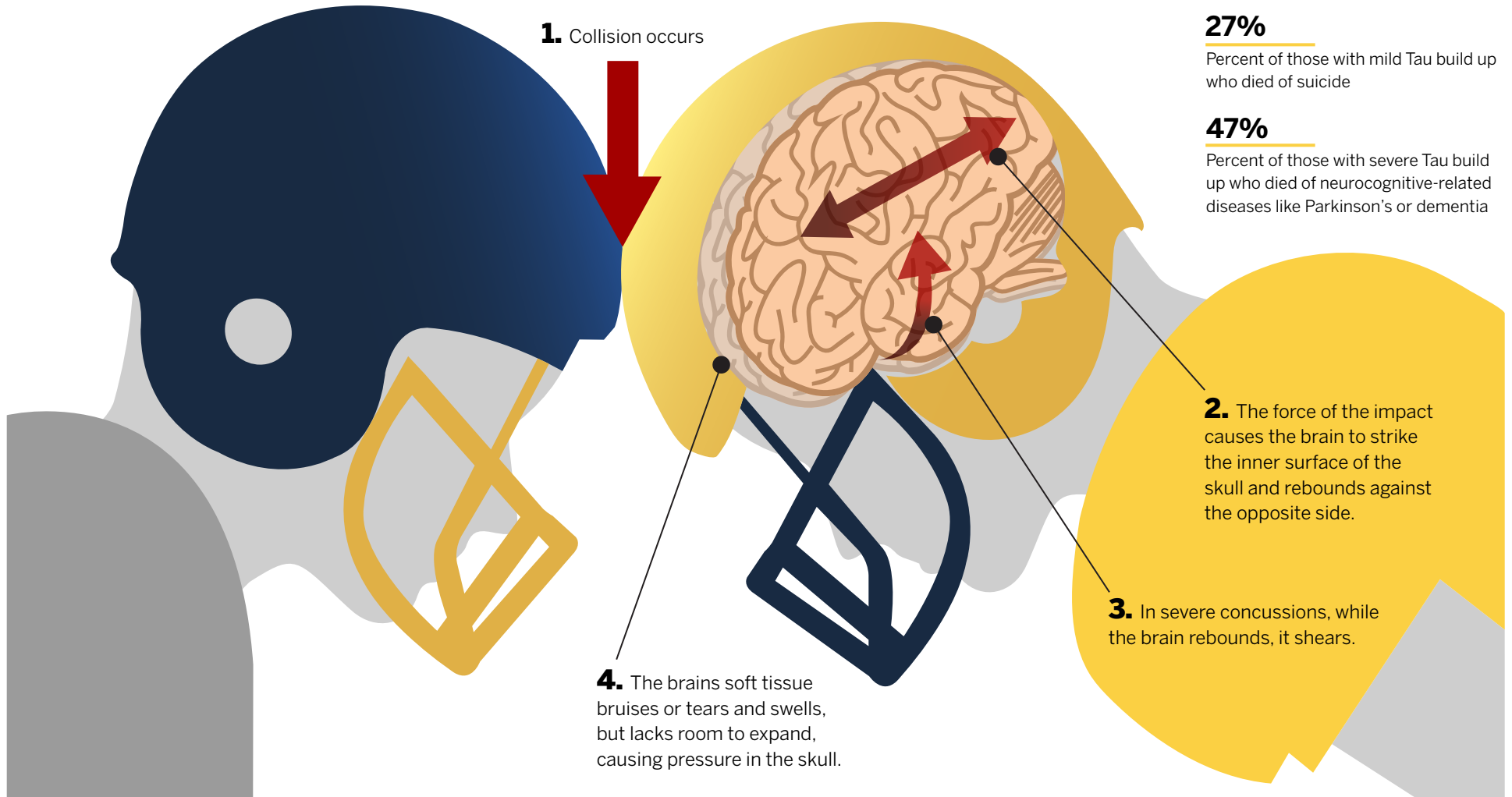


# New Helmets to prevent CTE

Football is one of America's most dangerous sports, and concussions are one of its biggest issues. Continuous concussions cause Chronic Traumatic Encephalopathy (CTE,) a degenerative brain disease found in athletes, military veterans, and others with a history of repetitive brain trauma. In CTE, a protein, Tau, forms clumps that slowly spread throughout the brain killing brain cells, with symptoms that generally don't begin appearing until years later. Symptoms like impulsivity and anxiety appear in the early stages, but once it progresses CTE can impact speech, memory, and motor function. Currently the only way to diagnose the condition is with an autopsy; aka after the player has already died from it. Football helmet companies like Riddell, Schutt, Revolution, and Adams are attempting to create helmets to prevent CTE from occurring in our athletes, but to no avail. Concussion reducing helmets are yet to exist, and remains a frightening issue- is the game worth the debilitating condition?

## THE ANATOMY OF A CONCUSSION



## 110/111

Number of former NFL players who donated their brains to scientific study diagnosed with CTE

## 177/202

Number of former football players in high school, college, and professional leagues who were diagnosed with CTE

## 27%

Percent of those with mild Tau build up who died of suicide

## 47%

Percent of those with severe Tau build up who died of neurocognitive-related diseases like Parkinson's or dementia