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February 27th, 2013

[FSU spinout set to introduce nasal spray that fights brain injury](#)

Researchers at Florida State University are developing a nasal spray to reduce brain damage resulting from blows to the head.

Leading neuroscientist Jake VanLandingham was inspired by an injury he suffered as an FSU undergrad that left him with three blood clots in his brain. The drug arrives at a time when more athletes are coming forward with stories of long-term brain damage, and public attention is shifting more toward new diagnostics and therapies.

“It’s a market that needed to be tapped into,” says VanLandingham, “and everything just came together at the right time for us.” The new nasal spray, dubbed Prevasol, “upregulates three different proteins,” he says. “One that’s critical in removing blood from the brain, another that’s reducing inflammatory-mediated cell death in the brain, and a third is important in stabilizing the function of mitochondria inside the brain.” Prevasol can be given for as many as 30 days to concussed patients.

VanLandingham and his team launched the start-up Prevacus in support of their novel drug. Having gathered funds locally, and after hiring an executive team and CEO, they plan to take Prevasol to market by 2014.