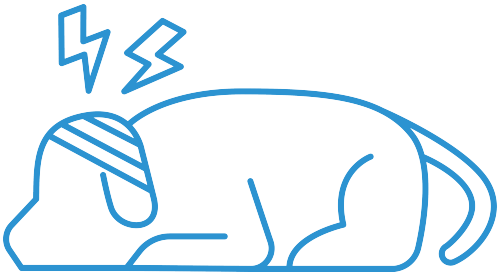
drip.vet



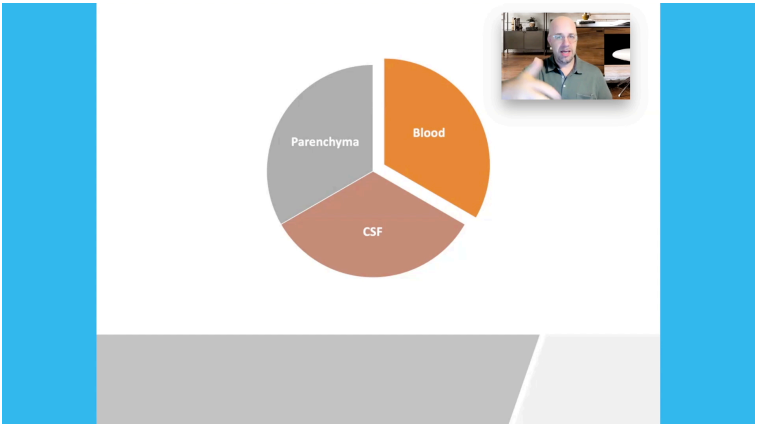
Traumatic Brain Injury

micro drip study guide

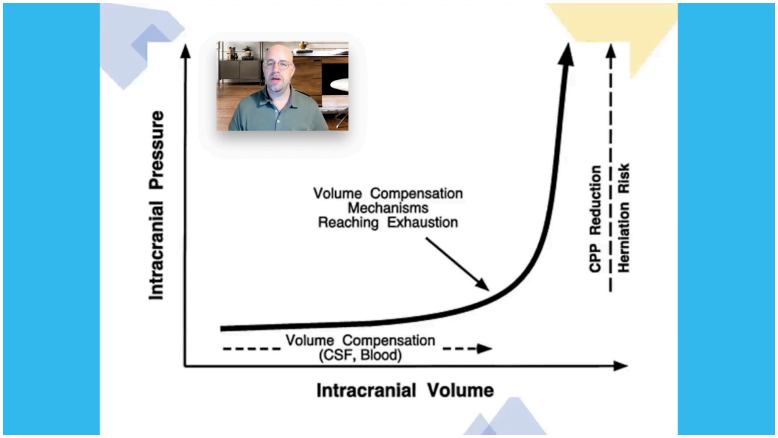
December 28, 2021

Instructor: Dr. Christopher G. Byers, DVM, DACVECC, DACVIM (SAIM), CVJ

Be advised this document is here to enhance your learning experience and is a cumulative of the slides and transcript & area for your notes. You are welcome to take your notes electronically or print then use it to supplement your learning while watching the drip



When we talk about the brain vault the cranium there's not a lot of things that's inside there right? In fact there's just three: the brain tissue itself, blood and cerebrospinal fluid and because the cranial vault is defined by bone that doesn't expand under normal circumstances there's a very very narrow window of variation between these three fluids substances etc meaning you can't just dump an extra liter of blood into the cranial vault without affecting the pressure.



You probably remember way back when you were in school talking about the Monro-Kellie theory or the Monro-Kellie doctrine which says the vault does a really good job of accommodating increases in brain parenchymal volume blood volume C.S. F. volume without increasing the pressure inside the brain up to a very specific point but then as you see on the screen you get to an inflection point and once you really start increasing the volume too much inside the cranial vault the pressure skyrockets it doesn't just gradually go up it takes off exponentially and that's again the Monro-Kellie doctrine