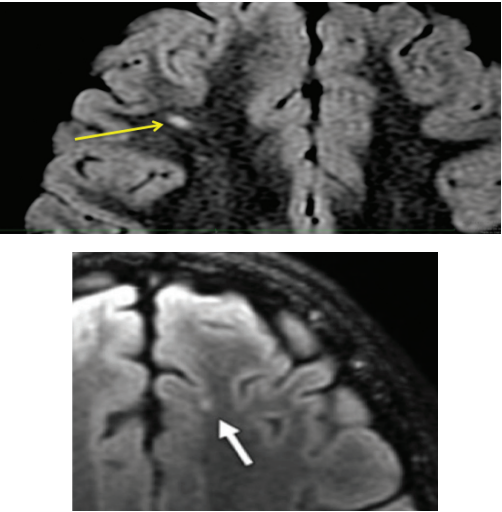


# A COMPLETE IMAGING ASSESSMENT

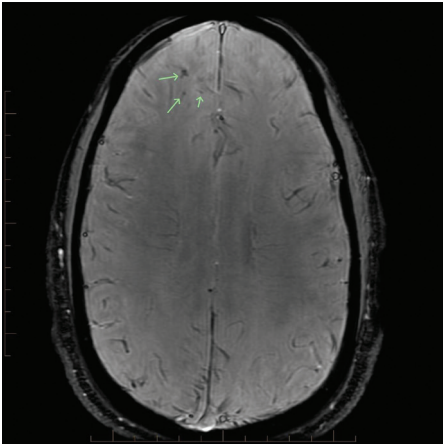
## EVALUATION OF SHEAR INJURY

Sensitive white matter sequence shows characteristic lesions.



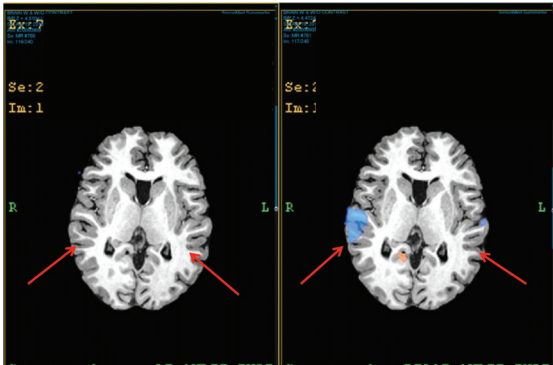
## SUSCEPTIBILITY WEIGHTED (SWI)

Sensitive sequence on 3T MR for residua of post traumatic hemorrhage.



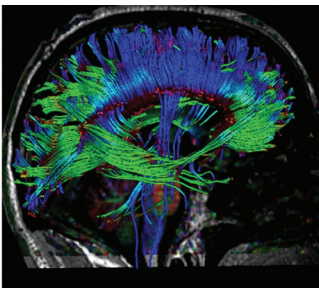
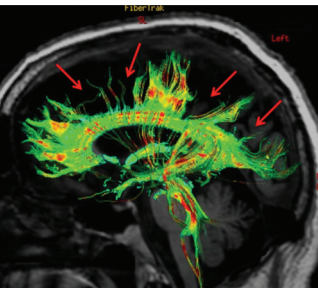
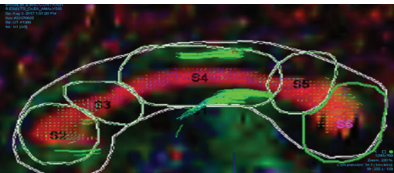
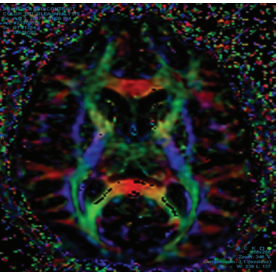
## FUNCTIONAL BRAIN MRI

Abnormal functional MRI correlating with injury.



## DIFFUSION TENSOR (DTI)

Quantitative and qualitative assessment for evaluation of axonal injury.

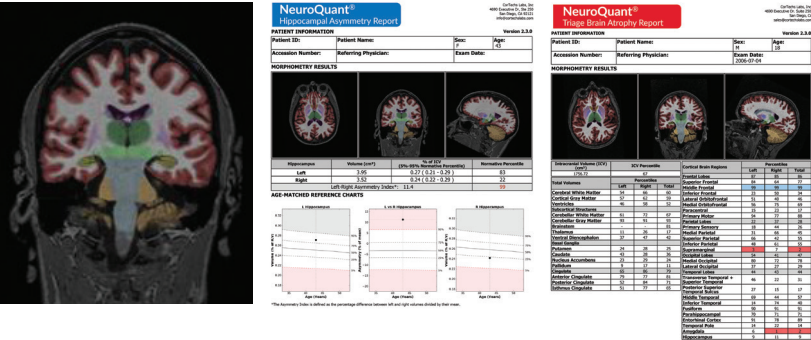


ABNORMAL

NORMAL

## HIPPOCAMPAL ATROPHY AND NEUROQUANT

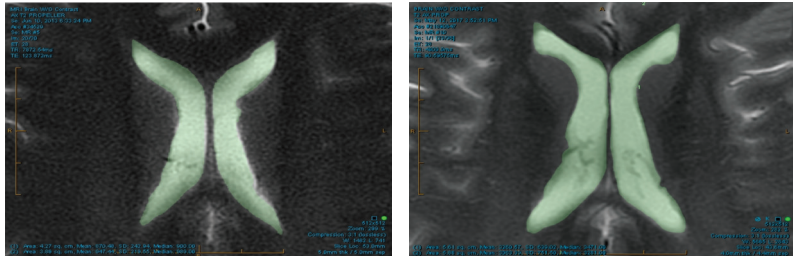
The hippocampus is one of the earliest areas of the brain to show damage following head trauma. SimonMed uses NeuroQuant software to quantitate volume loss vs. normal controls.



NeuroQuant is a registered trademark of CorTechs Labs, Inc.

## VENTRICULAR ENLARGEMENT

Another sign of underlying brain injury and predictor of cognitive outcome.



## CORPUS CALLOSUM ATROPHY

Another sign of underlying brain injury.

