



# JOYCE MASSEY TBI GRAND CHALLENGE 2016 Funded Research Projects

Funding was awarded based on the potential to impact the way traumatic brain injury is diagnosed and treated during the initial "golden hours" of care.

## GENOMIC & PROTEOMIC TECH TO DISCOVER VPA MECHANISM



Hasan Alam, MD  
Acute Care Surgery



Brian Athey, PhD  
Computational Medicine  
and Bioinformatics

### THE TEAM



Patrick Georgoff, MD  
General Surgery

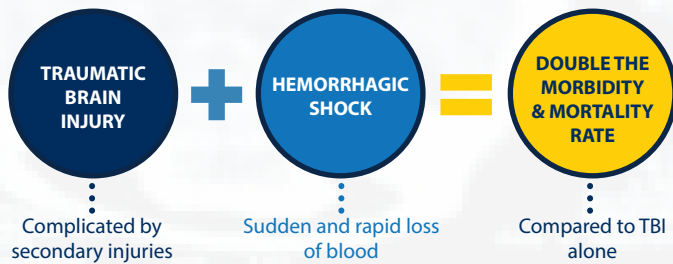


Gerald Higgins, MD, PhD  
Computational Medicine  
and Bioinformatics

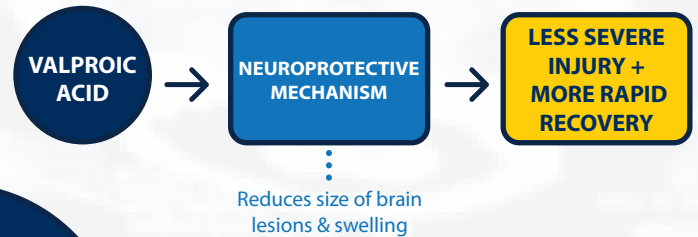


Vahagn Nikolian, MD  
General Surgery

### THE NEED



### THE TECHNOLOGY



### COMPETITIVE ADVANTAGE

Using genomic & proteomic tech to identify how valproic acid decreases the severity of TBI.

### COMMERCIALIZATION ROADMAP



**PROVEN DATA**  
The team's preliminary data suggest that early administration of VPA can decrease the severity of TBI.



**PORTABLE, LOW VOLUME, & EASY TO ADMINISTER**  
Can be widely incorporated into trauma resuscitation protocols, including on the battlefield where TBI is the "signature injury."



**NOVEL TBI THERAPY**  
There are currently no effective therapies for TBI patients. Valproic acid is well positioned to be the first.



### PROJECT MILESTONES

