

LIMBIC CONCUSSION FLUID BIOMARKER TOOL

- *These variables are completed at Initial and Comprehensive Re-Evaluations, except as noted. Collection Schedule – baseline, 1-year-post-index mTBI, 3-year-post-index mTBI, 5-year-post-index mTBI, then every 5 years afterwards*
- *The self-report questionnaires may be completed prior to visit, reviewed by study staff for completeness and reviewed with subject at visit; alternatively, they may be collected remotely, such as over the telephone, if the participant is logistically unable to come in person to a post-baseline comprehensive visit to achieve partial data collection instead of entirely missed visit.*

Biologic Fluids

- Blood for Commercial Lab Neuroendocrine Panel
 - Blood (serum (red top tube) for insulin-like growth factor 1 (IGF-1), thyroid stimulating hormone (TSH) and testosterone) collected for neuroendocrine assays
- BioRepository (processed and frozen locally and shipped in batch to the Biorepository for long-term storage, future analyses and distribution to collaborators for research)
 - Blood: serum, plasma, buffy coat (baseline visit only) and PAXgeneTM RNA tubes, processed, aliquoted, frozen and stored for serum, plasma, buffy coat, RNA and DNA analyses (as individually consented/allowed by each participant in the tiered consent)
 - Saliva: for future analyses, including metabolic and neuroendocrine, as approved per the Research Committee
 - All baseline samples will have the 4-plex assay completed for: total tau, neurofilament light chain (Nfl), glial fibrillary protein (GFAP), ubiquitin carboxy-terminal hydrolase-11 (UCLH1), Interleukin-6 (IL-6), IL-10 and TNF-alpha.
 - For samples selected for the development of novel assays (“Discovery cohorts”), this will include:
 - Exosomes isolation and characterization
 - Inflammatory cytokines (IL-6, IL-10, TNF-alpha)
 - Vascular endothelial growth factor (VEGF)
 - All samples with separate permission for DNA extraction and genetic testing will have global DNA sequencing completed