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| **Observation Points Needed (must select one)** | |
|  | **Baseline** (only data collected at the initial baseline visit) | |
|  | **Cumulative** (longitudinal data collected at baseline visit and any follow-up visit(s) completed) | |

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| **1. Lifetime Clinical TBI events for each subject** (note: this section is ideal for and suffices for almost all analyses) | | |
|  | **Variable** | **Description** |
|  | NumOfPOSITIVETBIs | # lifetime TBIs aggregated from all of subject’s CDIs and OSU TBI-ID screens lacking CDI  Note: If #TBI = 0, then subject is TBI negative (non-TBI ‘control’); If #TBI > 0, then subject is TBI positive |
|  | NumOfMildTBIs | # Mild TBIs (same as # lifetime TBIs if none are moderate-severe type; all of below mTBI type variables apply) |
|  | NumOfModOrSevereTBIs | # Moderate-Severe TBIs (below Aggregate Type of mTBI variables do not apply; instead use Event level data if subject had a moderate or severe TBI for further characterization relevant to your analysis) |
| **mTBI Subtypes** (note: major subtypes with light blue shading are NOT mutually exclusive, but all variables underneath each header are mutually exclusive; light grey shading are minor subtypes that stem off a major subtype) | | |
| COMBAT Deployment status | | |
|  | NumOfCombatTBIs | # mTBIs during a combat deployment |
|  | NumOfNonCombatTBIs | # mTBIs outside of combat deployment (Non combat) |
| Timing of Non-Combat-Deployed TBIs relative to first combat deployment (note: these are subcategories of NonCombatTBI) | | |
|  | NumOfNCTBIsAftr1stComDeploy | # Non combat mTBIs after 1st combat deployment |
|  | NumOfNCTBIsBfr1stComDeploy | # Non combat mTBIs before 1st combat deployment |
|  | NumOfNCTBIsEvntDtNtAvail | # Non Combat mTBIs Missing event date |
|  | NumOfNCTBIs1stDplyDtNtAvail | # Non Combat mTBIs Missing 1ST Deploy date |
| BLAST-related status (note: does not include subjects’ estimate of # controlled blast exposure) | | |
|  | NumOfNonBlastOrBluntTBIs | # Blunt mTBIs (Not Blast-related) |
|  | NumOfBlastTBIs | # Blast-related mTBIs |
| BLAST mechanism (note: these are subcategories of BlastTBI) | | |
|  | NumOfMixedBluntBlastTBIs | # Mixed Blast-Blunt TBIs (i.e., “Yes” to Q12, 13, or 14 in RCDI Blast or dependent on event description) |
|  | NumOfPureBlastTBIs | # Pure-Blast TBIs (i.e., “No” to Q12-14 in RCDI Blast or dependent on event description) |
|  | NumOfIndeterminantBlastTBIs | # Unknown because No CDI or ; see free text from OSU TBI-ID screener or No response to Q12, 13, or 14 in RCDI Blast or Unable to determine from blast description |
| PTA type | | |
|  | NumOfTBIwithoutPTA | # mTBIs without PTA (i.e., altered consciousness symptoms only (felt dazed, confused, and/or stars)) |
|  | NumOfTBIwithPTA | # mTBIs with PTA |
| LOC Endorsement if TBI with PTA (these are subcategories of TBIwithPTA) | | |
|  | NumOfTBIwithPTANoAnswerLOC | # mTBIs with PTA with no answer to loss of consciousness |
|  | NumOfTBIwithPTANoLOC | # mTBIs with PTA not endorsing LOC (No loss of consciousness) |
|  | NumOfTBIwithPTAYesLOC | # mTBIs with PTA with endorsed LOC (Yes) |
| Claiming of Witness for LOC (these are subcategories of TBIwithPTAYesLOC) | | |
|  | NumOfTBI\_PTAYesLOCWitness | # mTBIs with Witness-informed LOC claimed |
|  | NumOfTBI\_PTAYesLOCOwnexperience | # mTBIs with LOC by Guess only (denied being told of LOC by a witness)  •Guess only (denied being told of LOC by a witness) (Own Experience) |
|  | NumOfTBI\_PTAYesLOCNoClaimWitness | # mTBIs with unknown LOC subtype of witness claimed (OSU TBI screener only)  •Unknown claim of witnessed LOC; OSU screener only (Unknown) |
|  | NumOfTBI\_PTAYesLOCNoAnswerWitnes | # mTBIs with PTA with LOC but no answer to witness |
| **Time Since Key Event** (note: Always include TimeSinceIndex if using TBI negative controls for descriptive comparison) | | |
|  | TimeSinceIndexDays | Time since index date in days (same as worst deployment mTBI if any during deployment; if non-combat mTBIs only then time since worst TBI after 1st combat deployment; if all mTBIs predate first combat deployment [or if no lifetime TBI] then time since worst Combat PCE or time since mid-point of deployments if no combat PCE) |
|  | TimeSinceIndexYears | Time since index date in years (same as worst deployment mTBI if any during deployment; if non-combat mTBIs only then time since worst TBI after 1st combat deployment; if all mTBIs predate first combat deployment [or if no lifetime TBI] then time since worst Combat PCE or time since mid-point of deployments if no combat PCE) |
|  | TimeSinceFirstTBIDays | Time since first TBI in days |
|  | TimeSinceFirstTBIYears | Time since first TBI in years |
|  | TimeSinceSecondTBIDays | Time since second mTBI (if applicable) in days |
|  | TimeSinceSecondTBIYears | Time since second mTBI (if applicable) in years |
|  | TimeSinceThirdTBIDays | Time since third mTBI (if applicable) in days |
|  | TimeSinceThirdTBIYears | Time since third mTBI (if applicable) in years |
|  | TimeSinceLastTBIDays | Time since last (most recent) mTBI in days |
|  | TimeSinceLastTBIYears | Time since last (most recent) mTBI in years |

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| **Supplement A. TBI Event Level Variables (i.e., multiple rows of data per participant)** | | |
|  | **Variable name** | **Description** |
|  | TBI\_YN | Based on final TBI determination  •Not TBI; subsequent TBI variables DO NOT apply (use PCE level variables if need to analyze non TBI events)  •Yes TBI; all subsequent TBI event level characterizations variables apply (shaded variables are same as PCE event level) |
|  | TBI\_EventDate | Date of TBI event (Month, Year) |
|  | TBI\_EventDate\_char | Date of TBI event  •Includes “Event date not available” |
|  | ApproxAgeAtTBI\_Event | Age incurred (approximated based on age at baseline and month and year of event) |
|  | ApproxAgeAtTBI\_Event\_char | Age incurred (approximated based on age at baseline and month and year of event)  •Includes “Event date not available” |
|  | Tbi\_Event\_interval\_timeMonths | •Not applicable (First TBI)  •Time between TBIs in months (i.e., mTBI #1 to mTBI #2; mTBI #2 to mTBI #3) |
|  | Tbi\_Event\_interval\_timeYrs | •Not applicable (First TBI)  •Time between TBIs in years (i.e., mTBI #1 to mTBI #2; mTBI #2 to mTBI #3) |
|  | TBI\_EventInterviewMethod | Interview method  •VCU rCDI-Blast (Blast)  •VCU rCDI-General (General)  •OSU TBI-ID screener only (PCE) |
|  | TBI\_EventDescription | Description of event |
|  | TBI\_Severity\_Status | Greater than Mild TBI Status [So far, every TBI in database is mild, but it is possible that an enrolled subject will sustain a moderate or severe TBI during longitudinal follow-up.]  •Mild TBI  •Moderate/Severe TBI |
|  | TBI\_EventDeploymentStatus | Whether TBI was sustained during combat deployment (based on whether it was completed in Part 1 (combat) or Part 2 (non deployment) of PCE mapping  •During a Combat Deployment (Combat)  •Outside of Combat Deployment (Non-Combat) |
|  | NonCombatTBI\_EventDeployStatus | Outside of Combat Deployment with subcategories  •Before 1st deployment  •After 1st deployment |
|  | TBI\_EventBlastStatus | Blast-relation status  •Not Blast-related (rCDI-General; non-blast table events) (Non-Blast)  •Yes Blast-related (rCDI-Blast; blast table events) (Blast) |
|  | TBI\_EventTypeOfBlast | Type of Blast mechanism  •Mixed Blunt-Blast (i.e., “Yes” to Q12, 13, or 14 in RCDI Blast or dependent on event description)  •Pure Blast (i.e., “No” to Q12-14 in RCDI Blast or dependent on event description)  •Indeterminant (Unknown because No CDI or ; see free text from OSU TBI-ID screener or No response to Q12, 13, or 14 in RCDI Blast or Unable to determine from blast description) |
|  | TBI\_Type | PTA status  •Without PTA  •With PTA |
|  | PTA\_Duration | Duration of PTA  •Minutes of PTA from CDI |
|  | PTA\_Duration\_char | Duration of PTA  •Minutes of PTA from CDI  •Unknown; OSU screener only |
|  | PTA\_LOC\_Status | LOC Status (must be mTBI with PTA event to get categorized by LOC)  •LOC denied (No)  •LOC endorsed (Yes) |
|  | PTA\_LOC\_endorsed | LOC Endorsement Type (subcategories of LOC Endorsed Yes)  •Witness informed LOC claimed (Witness) •Includes “Event date not available”  •Guess only (denied being told of LOC by a witness) (Own Experience)  •Unknown claim of witnessed LOC; OSU screener only (Unknown) |
|  | PTA\_LOC\_Duration | Duration of LOC  •Minutes of LOC from CDI or OSU screener |
|  | PTA\_LOC\_Duration\_char | Duration of LOC  •N/A; LOC denied  •Minutes of LOC from CDI or OSU screener |

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| **Supplement B. Subject Level Aggregate PCE Variables (i.e., one row of data per participant)** | | |
|  | **Variable name** | **Description** |
|  | NumOfTotalPCEs | Total # of all PCEs identified throughout PCE mapping |
| **PCE Subtypes**  (note: major subtypes with light blue shading are NOT mutually exclusive, but all variables underneath each header are mutually exclusive; light grey shading are minor subtypes that stem off a major subtype) | | |
| COMBAT Deployment status | | |
|  | NumOfCombatPCEs | # PCEs during a combat deployment (Part 1 of PCE mapping) |
|  | NumOfNonCombatPCEs | # PCEs outside of combat deployment (Non Combat PCEs; Part 2 of PCE mapping) |
| Timing of Non-Combat-Deployed PCEs relative to first combat deployment (note: these are subcategories of NonCombatPCE) | | |
|  | NumOfNCPCEsAftr1stComDeploy | # Non Combat PCEs after 1st Combat deployment |
|  | NumOfNCPCEsBfr1stComDeploy | # Non Combat PCEs before 1st Combat deployment |
|  | NumOfNCPCEsEvntDtNtAvail | # Non Combat PCEs missing event date |
|  | NumOfNCPCEs1stDplyDtNtAvail | # Non Combat PCEs missing first deploy date |
| BLAST-related status (note: does not include subjects’ estimate of # controlled blast exposure) | | |
|  | NumOfBlastPCEs | # Blast PCEs |
|  | NumOfNonBlastOrBluntPCEs | # Blunt PCEs (Non - blast) |
| BLAST mechanism (note: these are subcategories of BlastPCE) | | |
|  | NumOfMixedBluntBlastPCEs | # Mixed Blast-Blunt TBIs (i.e., “Yes” to Q12, 13, or 14 in RCDI Blast or dependent on event description) |
|  | NumOfPureBlastPCEs | # Pure-Blast TBIs (i.e., “No” to Q12-14 in RCDI Blast or dependent on event description) |
|  | NumOfIndeterminantBlastPCEs | # Unknown because No CDI or ; see free text from OSU TBI-ID screener or No response to Q12, 13, or 14 in RCDI Blast or Unable to determine from blast description |
| **Time Since Key Event** | | |
|  | TimeSinceIndexDays | •Time since index date in days (same as worst deployment mTBI if any during deployment; if non-combat mTBIs only then time since worst TBI after 1st combat deployment; if all mTBIs predate first combat deployment then time since worst Combat PCE or time since mid-point of deployments if no combat PCE) |
|  | TimeSinceIndexYrs | •Time since index date in years (same as worst deployment mTBI if any during deployment; if non-combat mTBIs only then time since worst TBI after 1st combat deployment; if all mTBIs predate first combat deployment then time since worst Combat PCE or time since mid-point of deployments if no combat PCE) |
|  | TimeSinceFirstPCEDays | Time since first PCE in days |
|  | TimeSinceFirstPCEYrs | Time since first PCE in years |
|  | TimeSinceLastPCEDays | Time since last (most recent) PCE in days |
|  | TimeSinceLastPCEYrs | Time since last (most recent) PCE in years |

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| **Supplement C. PCE Event Level Variables (i.e., multiple rows of data per participant)** | | |
|  | **Variable name** | **Description** | |
|  | PCE\_EventDate | Date of PCE event (Month, Year) | |
|  | PCE\_EventDate\_char | Date of PCE event  •Includes “Event date not available” | |
|  | ApproxAgeAtPCE\_Event | Age incurred (approximated based on age at baseline and month and year of event) | |
|  | ApproxAgeAtPCE\_Event\_char | Age incurred (approximated based on age at baseline and month and year of event)  •Includes “Event date not available” | |
|  | InterviewMethod | Interview method  •VCU rCDI-Blast (Blast)  •VCU rCDI-General (General)  •OSU TBI-ID screener only (PCE) | |
|  | PCE\_EventDescription | Description of event | |
|  | PCE\_EventDeploymentStatus | Whether PCE was sustained during combat deployment (based on whether it was completed in Part 1 (combat) or Part 2 (non deployment) of PCE mapping)  •During a Combat Deployment (Combat)  •Outside of Combat Deployment (Non-Combat) | |
|  | NonCombatPCE\_EventDeployStatus | Outside of Combat Deployment with subcategories  •Before 1st deployment  •After 1st deployment | |
|  | PCE\_EventBlastStatus | Blast-relation status  •Not Blast-related (rCDI-General; non-blast table events) (Non-Blast)  •Yes Blast-related (rCDI-Blast; blast table events) (Blast) | |
|  | PCE\_EventTypeOfBlast | Type of Blast mechanism  •Mixed Blunt-Blast (i.e., “Yes” to Q12, 13, or 14 in RCDI Blast or dependent on event description)  •Pure Blast (i.e., “No” to Q12-14 in RCDI Blast or dependent on event description)  •Indeterminant (Unknown because No CDI or ; see free text from OSU TBI-ID screener or No response to Q12, 13, or 14 in RCDI Blast or Unable to determine from blast description) | |