

Sport-Related Concussion CDE Revision History Document

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September 2024

- The Sport-Related Concussion Highlight Summary was updated to correct the name of the Test for Executive Control (TEC) to Tasks of Executive Control (TEC) in the Outcomes and End Points; Cognitive Assessments Domain; Subdomain, classified as Exploratory.

January 2020 Revisions

- General Core CRF updated to replace 'Gender' question with 'Sex assigned at birth' and 'Gender identity'.
- Two new CDEs added to CRF: C58676 (Sex assigned at birth) and C58677 (Gender identity). C00035 has been removed
- Start-Up document updated to reflect these changes.

July 2018 Revisions

- Substance Use CRF was revised. Question 2 text was corrected to query six or more drinks instead of five or more drinks. Question text for C00707 was also corrected.

January 2018 Revision

The following changes were made based on the Working Group's decisions for the SRC Publication.

- The following classification changes were made to the Outcomes and Endpoint

| Instrument | Subgroup | Old Classification | Updated Classification |
|---|--------------------|---------------------------------|-------------------------------|
| Standardized Assessment of Concussion (SAC) | Subacute | Supplemental-Highly Recommended | Core |
| Standardized Assessment of Concussion (SAC) | Persistent/Chronic | Supplemental-Highly Recommended | Supplemental |
| Rivermead Postconcussive Symptom Questionnaire (RPQ) | Subacute | Supplemental-Highly Recommended | Core |
| CNS Vital Signs | Persistent/Chronic | Supplemental | Core |

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|--|------------------------------|--------------|------|
| Post-Concussive Scale (PCSI) | Subacute, Persistent/Chronic | Supplemental | Core |
| Immediate Post-Concussion Assessment and Cognitive Testing (imPACT) | Persistent/Chronic | Exploratory | Core |
| Health and Behavior Inventory (HBI) | Subacute, Persistent/Chronic | Supplemental | Core |

- Children's Orientation and Amnesia Test (COAT) **moved from** Post-concussive/mild TBI related symptoms domain to Cognitive Assessment Domain
- Neurophysiological Function Domain was **changed to** Cognitive Assessment
- Post concussive/ TBI-Related Symptoms Domain was **changed to** Post-concussive/mild TBI-Related Symptoms
- Oculomotor_Vestibular Domain was **changed to** Vestibular Function
- Quality of Life Domain **changed to** Quality of Life/Patient Reported Outcomes
- The following changes were updated to the SRC Start-Up Document:
 1. Health and Behavior Inventory (HBI) was **added** to the Acute time-frame Core measures
 2. Post-concussion Symptom Inventory (PCSI) was **added** to the Acute time-frame Core measures
 3. The Rivermead Postconcussive Symptom Questionnaire (RPQ) was **added** to the Acute time-frame Core measures
 4. Post-concussion Symptom Inventory (PCSI) was **added** to the Acute time-frame Core measures
 5. Health and Behavior Inventory (HBI) was **added** to the Persistent/Chronic time-frame Core measures
 6. Post-concussion Symptom Inventory (PCSI) was **added** to the Persistent/Chronic time-frame Core measures
 7. The Rivermead Postconcussive Symptom Questionnaire (RPQ) was **removed** from the Subacute Supplemental-Highly Recommended measures
 8. Hopkins Verbal Learning Test -Revised (HVLT-R) was **added** to the Persistent/Chronic Supplemental-Highly Recommended measures
 9. Standardized Assessment of Concussion (SAC) was **removed** from the Persistent/Chronic Supplemental-Highly Recommended measures
 10. Footnote of last Modified date was **updated** to 2/1/2018
- The following changes were updated to the SRC Highlight Summary:
 1. The Rivermead Postconcussive Symptom Questionnaire (RPQ) was **removed** from Subacute list of Supplemental-Highlight Recommended measures under the Subgroup - Sport-Related Concussion

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2. Dizziness Handicap Inventory (DHI) was **added** to the Persistent/Chronic list of Supplemental-Highlight Recommended measures under the Subgroup - Sport-Related Concussion
 3. Subgroup name *Outcomes and End Points; Post Concussive TBI Related Symptoms* was **updated to** *Outcomes and End Points; Post-Concussion/mild TBI Related Symptoms*
 4. Subgroup name *Outcomes and End Points; Oculomotor/Vestibular* was **updated to** *Outcomes and End Points; Vestibular and Oculo Motor Function*
 5. Subgroup name *Outcomes and End Points; Neuropsychological Function* was **updated to** *Outcomes and End Points; Cognitive Assessments*
 6. The Children's Orientation and Amnesia Test (COAT) was **added** to *Outcomes and End Points; Cognitive Assessments* as SHR for the Acute timeframe
 7. Persistent/Chronic timeframe was **removed** from the Standardized Assessment of Concussion (SAC) under the *End Points; Cognitive Assessments* Subgroup
 8. Core measures: Automated Neuropsychological Assessment Metrics (ANAM), Axon Sports Computerized Cognitive Assessment Tool (CCAT); Immediate Post-Concussion Assessment and Cognitive Testing (imPACT); and CNS Vital Signs **were removed** from the *Outcomes and End Points; Post-Concussion/mild TBI Related Symptoms* as they are noted the Cognitive Assessments
 9. Health and Behavior Inventory (HBI) was **added** to the list of Core measures in *Outcomes and End Points; Post-Concussion/mild TBI Related Symptoms* for the Subacute and Persistent/Chronic timeframes
 10. The Rivermead Postconcussive Symptom Questionnaire (RPQ) for the Subacute timeframe was **removed** from SHR and **added** to Core in the *Outcomes and End Points; Post-Concussion/mild TBI Related Symptoms*
 11. The Children's Orientation and Amnesia Test (COAT) was **removed** from the *Outcomes and End Points; Post-Concussion/mild TBI Related Symptoms* as it is noted in the Cognitive Assessments.
- The following Notice of Copyrights were updated with classification changes, formatting and/or functional links:
 1. Automated_Neuropsychological_Assessment_Metrics
 2. Axon_Sports_Computerized_Cognitive_Assessment_Tool
 3. Behavioral_Rating_Inventory_of_Executive_Function_Second_Edition
 4. Brief_Symptom_Inventory_18
 5. Brief_Visuospatial_Memory_Test
 6. Child_and_Adolescent_Scale_of_Participation
 7. Child_Behavior_Checklist
 8. Child_SCAT_3
 9. CNS_Vital_Signs
 10. Cognitive_Battery_NIH_Toolbox
 11. Conners_III
 12. Controlled_Oral_Word_Association_Test
 13. Dizziness_Handicap_Inventory
 14. Dynamic_Gait_Index
 15. Dynamic_Visual_Acuity_Test
 16. Family_Assessment_Device
 17. Family_Burden_of_Injury_Interview
 18. Family_History_Research_Diagnostic_Criteria
 19. Frontal_Systems_Behavior_Scale
 20. Functional_Gait_Assessment
 21. Hopkins_Verbal_Language_Test_Revised
 22. Immediate_Post_Concussion_Assessment_and_Cognitive_Testing
 23. NIH_Toolbox_Sensory_Battery
 24. NIH_Toolbox_Standing_Balance_Test
 25. Pittsburgh_Sleep_Quality_Index
 26. Post_Concussion_Symptom_Inventory
 27. Postconcussion_Symptom_Scale
 28. Rey_Auditory_Verbal_Learning_Test
 29. Rivermead_Post_Concussion_Symptoms_Questionnaire
 30. Sport_Concussion_Assessment_Tool_(SCAT_3_&_5)
 31. Test_for_Premorbid_Functioning
 32. Test_of_Everyday_Attention
 33. Test_of_Executive_Control
 34. Test_of_Word_Reading_Efficiency_2
 35. The_UCLA_PTSD_Index_for_DSM_5
 36. Trail_Making_Test

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- 37. Vestibular_Ocular_Motor_Screening (VOMS)
- 38. Wide_Range_Assessment_of_Memory_and_Learning

- 39. Word_Reading_Subtest_Wide_Range_Achievement_Test

December 2017 Revisions

- The references on the Quality of Life after Brain Injury (QOLIBRI) Notice of Copyright was updated

November 2017 Revisions

- The title “Sports-Related Concussion” was changed to “Sport-Related Concussion” on the NINDS CDE website.
- Instructions on the Treatment and Intervention case report form were updated to remove mention of biomarkers and collection of specimens
- Revisions made to the Highlight Summary Document. Change General Core Classification from Supplemental to Core under the Participant Characteristics; Demographics domain.

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| <p><i>Participant Characteristics; Demographics</i></p> | <p>Core: General Core</p> <p>Supplemental – Highly Recommended:</p> <p>Supplemental: Demographic</p> <p>Exploratory:</p> |
|--|--|

October 2017 Revisions

- The mention of Spinal Cord Injury was removed from the instructions of the Injury Report and Vital Signs Test case report forms.

August 2017 Revisions

- Links on the following Notice of Copyrights were updated to functioning sites:
 1. Brief Sensation Seeking Scale (BSSS)
 2. Axon Sports Computerized Cognitive Assessment Tool (CCAT) ©
 3. Standardized Assessment of Concussion
 4. Brief Symptom Inventory-18 (BSI-18) ©
 5. Sport Concussion Assessment Tool (SCAT-3) or (SCAT-5) (goes to SCAT-2)
 6. PTSD Checklist
 7. Dynamic Gait Index (DGI)

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June 2017 Revisions

- Sport-Related Concussion (SRC) CDEs were posted to the NINDS CDE website
- Revisions made to SRC Roster