Sport-Related Concussion CDE Revision History Document

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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

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Subgroup</th>
<th>Old Classification</th>
<th>Updated Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standardized Assessment of Concussion (SAC)</td>
<td>Subacute</td>
<td>Supplemental-Highly Recommended</td>
<td>Core</td>
</tr>
<tr>
<td>Standardized Assessment of Concussion (SAC)</td>
<td>Persistent/Chronic</td>
<td>Supplemental-Highly Recommended</td>
<td>Supplemental</td>
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<tr>
<td>Rivermead Postconcussive Symptom Questionnaire (RPQ)</td>
<td>Subacute</td>
<td>Supplemental-Highly Recommended</td>
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<td>CNS Vital Signs</td>
<td>Persistent/Chronic</td>
<td>Supplemental</td>
<td>Core</td>
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<tr>
<td>Post-Concussive Scale (PCSI)</td>
<td>Subacute, Persistent/Chronic</td>
<td>Supplemental</td>
<td>Core</td>
</tr>
<tr>
<td>Immediate Post-Concussion Assessment</td>
<td>Persistent/Chronic</td>
<td>Exploratory</td>
<td>Core</td>
</tr>
</tbody>
</table>
- 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
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
  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
  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.

<table>
<thead>
<tr>
<th>Participant Characteristics; Demographics</th>
<th>Core: General Core</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supplemental – Highly Recommended:</td>
</tr>
<tr>
<td></td>
<td>Supplemental: Demographic</td>
</tr>
<tr>
<td></td>
<td>Exploratory:</td>
</tr>
</tbody>
</table>

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)

June 2017 Revisions
- Sport-Related Concussion (SRC) CDEs were posted to the NINDS CDE website
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- Revisions made to SRC Roster