**Attachment G-1. Table Shells**

**Table 1. Associations with Indicators of Severity Using this Data Collection: Case Definition Tiers**

|  |  |
| --- | --- |
|  | **Case Definition Tiers (Mean, Median or %)a** |
| **Indicators of Injury Severity/*Interview Type*** | **Tier 3:****Probable TBI** | **Tier 2:****Possible TBI** | **Tier 1:****Delayed Possible TBI** |
| *Adult/Proxy* |  |  |  |
| Mean Time to Symptom Resolution |  |  |  |
| Mean Time to Return to Play (18 to 22 years of age) |  |  |  |
| Percent Hospitalized |  |  |  |
| Percent Received Post-TBI Examination |  |  |  |
| Percent Received TBI Diagnosis |  |  |  |
| Percent Reason for Not Seeking Care Other Than Perception that TBI was Not Seriousb  |  |  |  |
| Median Extent of Impact: Social Functioningc |  |  |  |
| Median Extent of Impact: Work Functioningc |  |  |  |
| *Adolescents* |  |  |  |
| Mean Time to Symptom Resolution |  |  |  |
| Mean Time to Return to Play |  |  |  |
| Percent Hospitalized |  |  |  |
| Percent Checked Out For TBI |  |  |  |
| Percent Reason for Not Telling Other Than Perception TBI was Not Serious or Did Not Realize They Were Hurtb |  |  |  |
| Median Extent of Impact: Social Functioningc |  |  |  |
| Median Extent of Impact: School Activitiesc |  |  |  |

a Statistically significantly differences between groups indicated by superscripts

b Among those who did not seek care or tell anyone about their TBI

c Subsequent functioning measured using questions adapted from the Short Form Health Survey (SF-36), range is 1 - 5 (1).

**Table 2. Associations with Indicators of Severity: TBI (Tier 3: Probable, Tier 2: Possible, Tier 1: Delayed Possible) Compared to Non-Casesa**

|  |  |  |
| --- | --- | --- |
| **Indicators of Injury Severity/*Interview Type*** | **TBI (Median or %) b** | **Non-Cases (Median or %) b** |
| *Adult/Proxy* |  |  |
| Percent Received Post-TBI Examination |  |  |
| Percent Received TBI Diagnosis |  |  |
| Percent Reason for Not Seeking Care Other Than Perception that TBI was Not Seriousb |  |  |
| Median Extent of Impact: Social Functioningd |  |  |
| Median Extent of Impact: Work Functioningd |  |  |
| *Adolescent* |  |  |
| Checked Out For TBI |  |  |
| Percent Reason for Not Telling Other Than Perception TBI was Not Serious or Did Not Realize They Were Hurtb |  |  |
| Median Extent of Impact: Social Functioningd |  |  |
| Median Extent of Impact: School Activitiesd |  |  |

a Non-cases refer to head injury for which no symptoms were endorsed

b Statistically significant differences indicated by superscripts

c Among those who did not seek care or tell anyone about their TBI

d Subsequent functioning measured using questions adapted from the Short Form Health Survey (SF-36), range is 1 - 5 (1).

**Table 3. Comparisons to Adolescent Reports to Parent Proxy Reports**

|  |  |  |
| --- | --- | --- |
| **Tier 3 and Tier 2 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 and Non-Casesa Estimate (CI)** |
| **% Agreement** | **Kappa** | **% Agreement** | **Kappa** | **% Agreement** | **Kappa** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

a Non-cases refer to head injury for which no symptoms were endorsed

CI = Confidence Interval

**Table 4. Associations with Indicators of Severity in External Data Collections (Research Studies): Case Definition Tiersa**

|  |  |
| --- | --- |
|  | **Case Definition Tiers (Mean, Median or %)b** |
| **Indicators of Severity** | **Tier 3****Probable** | **Tier 2****Possible** | **Tier 1****Delayed Possible** |
| **High School RIO** |
| Mean Time to Symptom Resolution |  |  |  |
| Mean Time to Return to Play  |  |  |  |
| **PARC Study** |  |  |  |
| Mean Persistent Symptoms |  |  |  |

a Statistically significantly differences between groups indicated by superscripts

**Table 5. Comparison of Current Estimates to Estimates Using Healthcare Administrative Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Population/ Data Source for Comparison** | **Data Source Estimate (CI)** | **Tier 3 and Tier 2 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 and Non-Casesa Estimate (CI)** |
| *Adults and children 5 years of age and older* |
| Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS) |  |  |  |  |
| Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS) |  |  |  |  |
| National Electronic Injury Surveillance System – All Injury Program (NEISS – AIP) |  |  |  |  |
| *Children 5 to 17 years of age* |
| Truven Health Analytics MarketScan Research Databases: Medicaid and Commercial Claims  |  |  |  |  |

a Non-cases refer to head injury for which no symptoms were endorsed

CI = Confidence Interval

**Table 6. Comparison of Current Estimates to Estimates by Activity Engaged in at Time of Injury Using Healthcare Administrative Data and Self-Report Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Population/ Data Source for Comparison** | **Data Source Estimate (CI)** | **Tier 3 and Tier 2 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 and Non-Casesa Estimate (CI)** |
| *Adults and children 5 years of age and older: Assault* |
| Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS) |  |  |  |  |
| Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS) |  |  |  |  |
| *Adults and children 5 years of age and older: Bike* |
| National Electronic Injury Surveillance System – All Injury Program (NEISS – AIP) |  |  |  |  |
| *Adults and children 5 years of age and older: Motor Vehicle* |
| Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS) |  |  |  |  |
| Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS) |  |  |  |  |
| *Adults and children 5 years of age and older: Falls* |
| Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS) |  |  |  |  |
| Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS) |  |  |  |  |
| *Adults and children 5 years of age and older: Sports and Recreation Related* |
| National Electronic Injury Surveillance System – All Injury Program (NEISS – AIP) |  |  |  |  |
| *Children 14 to 18 years of age: Sports and Recreation Related*  |
| Youth Risk Behavior Surveillance System (YRBS), 2017 |  |  |  |  |
| *Children 14 to 18 years of age: Sports and Recreation Related, School-Based Team Sport* |
| Youth Risk Behavior Surveillance System (YRBS), 2017 |  |  |  |  |
| *Children 14 to 18 years of age: Sports and Recreation Related, Non-School-Based Team Sport*  |
| Youth Risk Behavior Surveillance System (YRBS), 2017 |  |  |  |  |
| *Children 14 to 18 years of age: Sports and Recreation Related, Not Part of School or Community Sports Team*  |
| Youth Risk Behavior Surveillance System (YRBS), 2017 |  |  |  |  |

a Non-cases refer to head injury for which no symptoms were endorsed

CI = Confidence Interval

**Table 7. Comparison of Current Estimates to Estimates by Health Care Provider Using Healthcare Administrative Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Population/ Data Source for Comparison** | **Data Source Estimate (CI)** | **Tier 3 and Tier 2 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 Estimate (CI)** | **Tier 3, Tier 2, Tier 1 and Non-Casesa Estimate (CI)** |
| *Adults and children 5 to 17 years of age: Truven Health Analytics MarketScan Research Databases: Medicaid and Commercial Claims* |
| Emergency Department |  |  |  |  |
| Urgent Care Center |  |  |  |  |
| Office/Clinic |  |  |  |  |
| Outpatient |  |  |  |  |

a Non-cases refer to head injury for which no symptoms were endorsed

CI = Confidence Interval

1. Ware JE, Sherbourne CD. The MOS 36-item Short-Form Health Survey (SF-36): I. Conceptual framework and item selection. Medical Care. 1992;30:473-83.