

**Attachment G-1. Table Shells**

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

	<b>Case Definition Tiers (Mean, Median or %)<sup>a</sup></b>		
<b>Indicators of Injury Severity/Interview Type</b>	<b>Tier 3: Probable TBI</b>	<b>Tier 2: Possible TBI</b>	<b>Tier 1: Delayed Possible TBI</b>
<i>Adult/Proxy</i>			
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 Serious <sup>b</sup>			
Median Extent of Impact: Social Functioning <sup>c</sup>			
Median Extent of Impact: Work Functioning <sup>c</sup>			
<i>Adolescents</i>			
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 Hurt <sup>b</sup>			
Median Extent of Impact: Social Functioning <sup>c</sup>			
Median Extent of Impact: School Activities <sup>c</sup>			

<sup>a</sup> Statistically significantly differences between groups indicated by superscripts

<sup>b</sup> Among those who did not seek care or tell anyone about their TBI

<sup>c</sup> 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-Cases<sup>a</sup>**

<b>Indicators of Injury Severity/Interview Type</b>	<b>TBI (Median or %) <sup>b</sup></b>	<b>Non-Cases (Median or %) <sup>b</sup></b>
<i>Adult/Proxy</i>		
Percent Received Post-TBI Examination		
Percent Received TBI Diagnosis		
Percent Reason for Not Seeking Care Other Than Perception that TBI was Not Serious <sup>b</sup>		
Median Extent of Impact: Social Functioning <sup>d</sup>		
Median Extent of Impact: Work Functioning <sup>d</sup>		
<i>Adolescent</i>		
Checked Out For TBI		
Percent Reason for Not Telling Other Than Perception TBI was Not Serious or Did Not Realize They Were Hurt <sup>b</sup>		
Median Extent of Impact: Social Functioning <sup>d</sup>		
Median Extent of Impact: School Activities <sup>d</sup>		

<sup>a</sup> Non-cases refer to head injury for which no symptoms were endorsed

<sup>b</sup> Statistically significant differences indicated by superscripts

<sup>c</sup> Among those who did not seek care or tell anyone about their TBI

<sup>d</sup> 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-Cases <sup>a</sup> Estimate (CI)	
% Agreement	Kappa	% Agreement	Kappa	% Agreement	Kappa

<sup>a</sup> 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 Tiers<sup>a</sup>**

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

<sup>a</sup> Statistically significantly differences between groups indicated by superscripts

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

<b>Population/ Data Source for Comparison</b>	<b>Data Source Estimate (CI)</b>	<b>Tier 3 and Tier 2 Estimate (CI)</b>	<b>Tier 3, Tier 2, Tier 1 Estimate (CI)</b>	<b>Tier 3, Tier 2, Tier 1 and Non-Cases<sup>a</sup> Estimate (CI)</b>
<i>Adults and children 5 years of age and older</i>				
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)				
<i>Children 5 to 17 years of age</i>				
Truven Health Analytics MarketScan Research Databases: Medicaid and Commercial Claims				

<sup>a</sup> 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**

<b>Population/ Data Source for Comparison</b>	<b>Data Source Estimate (CI)</b>	<b>Tier 3 and Tier 2 Estimate (CI)</b>	<b>Tier 3, Tier 2, Tier 1 Estimate (CI)</b>	<b>Tier 3, Tier 2, Tier 1 and Non-Cases<sup>a</sup> Estimate (CI)</b>
<i>Adults and children 5 years of age and older: Assault</i>				
Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS)				
Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS)				
<i>Adults and children 5 years of age and older: Bike</i>				
National Electronic Injury Surveillance System – All Injury Program (NEISS – AIP)				
<i>Adults and children 5 years of age and older: Motor Vehicle</i>				
Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS)				
Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS)				
<i>Adults and children 5 years of age and older: Falls</i>				
Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP – NIS)				

Healthcare Cost and Utilization Project Nationwide Emergency Department Sample (HCUP – NEDS)				
<i>Adults and children 5 years of age and older: Sports and Recreation Related</i>				
National Electronic Injury Surveillance System – All Injury Program (NEISS – AIP)				
<i>Children 14 to 18 years of age: Sports and Recreation Related</i>				
Youth Risk Behavior Surveillance System (YRBS), 2017				
<i>Children 14 to 18 years of age: Sports and Recreation Related, School-Based Team Sport</i>				
Youth Risk Behavior Surveillance System (YRBS), 2017				
<i>Children 14 to 18 years of age: Sports and Recreation Related, Non-School-Based Team Sport</i>				
Youth Risk Behavior Surveillance System (YRBS), 2017				
<i>Children 14 to 18 years of age: Sports and Recreation Related, Not Part of School or Community Sports Team</i>				
Youth Risk Behavior Surveillance System (YRBS), 2017				

<sup>a</sup> 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**

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

<sup>a</sup> 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.