

# Appendix L

## Undertriage Calculation Methods

### Manual Undertriage Calculation

Total number of patients who met the facility's trauma team activation criteria and did not receive an activation (divided by) the total number of patients who met the facility's activation criteria.

Example Undertriage Rate Calculation:

*There were five patients undertriaged out of 100 total patients who met the facility's activation criteria.*

$$5 \div 100 = 0.05 \text{ (multiple by 100 for percentage)} = 5\% \text{ undertriage rate.}$$

### Matrix/Cribari Method

Standard report using the injury severity score in the trauma registry. Use the Collector Report Writer software. The highlighted areas reflect potentially over/under triaged patients.

Activation Type	Minor ISS <= 15	Major ISS >=16	Totals	
Full Activation	8	1	9	Overtriage Rate 88.89
Modified Activation	30	2	32	Undertriage Rate 6.71
No TTA	109	8	117	
Ran 1/1/2020 thru 6/2/2020				

### The Need for Trauma Intervention

Indicator that retrospectively identifies major trauma patients requiring trauma team activation. Patients meeting any of the NFTI criteria items without a trauma team activation, should be evaluated for undertriage.

NFTI Criteria:

Receiving PRBCs within four hours

Discharged from ED to OR within 90 minutes

Discharged from the ED to the ICU with ICU LOS  $\geq$  three days

Mechanical ventilation outside of procedural anesthesia with three days

Death within 60 hours