**TQIP\_NIS\_ais\_cm** (Similar for TQIP\_NIS\_ais\_base)

Icd\_cm: ICD-10-CM diagnosis code for an injury.

TQIPbr: Body region used for TQIP (NTDB) data. Note that body regions are those used by the original ISS (Baker), and not the copyrighted regions used by AAAM.

TQIPeffect: Incremental effect of this diagnosis code on the log odds of mortality in TQIP data, as estimated using ridge regression.

TQIPint: Intercept of the ridge regression model for the log odds of mortality.

An estimated mortality for an individual person can thus be estimated as Antilogit(TQIPint + Sum(TQIPeffect)), where the sum is over all of the injury diagnoses for that person.

TQIPn: Number of persons with this diagnosis in TQIP data.

TQIPais: Abbreviated Injury Score (AIS) for this diagnosis code, based on the cutoffs for TQIPeffect that produced the highest c-statistic (area under ROC curve) for predicting mortality using the ISS (defined by Baker as the sum of the squares of the maximum AIS in the three body regions with the highest maximum AIS).

NISbr, NISeffect, NISint, NISn, NISais: Same as above, but using NIS data instead of TQIP.

TQIPais\_mod: Same as TQIPais, unless TQIPais is missing, in which case same as NISais.

NISais\_mod: Same as NISais, unless NISais is missing, in which case same as TQIPais.

TQIPbr\_mod: Same as TQIPbr, unless TQIPbr is missing, in which case same as NISbr.

NISbr\_mod: Same as NISbr, unless NISbr is missing, in which case same as TQIPbr.

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User may specify whether to calculate ISS based on TQIP (default) or NIS.

If user specifies TQIP: User may also specify whether to use

TQIPais\_mod and TQIPbr\_mod (default), or TQIPais and TQIPbr.

If user specifies NIS: User may also specify whether to use

NISais\_mod and NISbr\_mod (default), or NISais and NISbr.