

STS Congenital – Data Quality Parent/Child and Consistency Edits
(for Surgical Procedures entered under 2.30 specifications)

Parent/Child edits:

In a parent/child relationship, there should not be a value in the child fields unless the parent field contains an appropriate value. At the data warehouse, if the parent field is missing or contains an invalid value but a child field contains a valid value, the parent field is changed to contain an appropriate value. There is only one parent/child edit performed for the Congenital database:

Case category (OpType) – The case category field is set to CPB (1) if it is currently missing or contains a value other than 1 and either of the fields CPB time (CPBTm) or circulatory arrest time (DHCATm) contains a valid value.

Consistency edits:

1. The Age (AgeDays) value is changed to the number of days between the Date of Birth (DOB) and Surgery Date (SurgDt) as calculated by the warehouse if the original value is missing or contains a value that does not equal the calculated value.
2. The Date of Mortality (MtDate) is set equal to the Date of Discharge (DischDt) if MtDate is missing and DischDt contains a valid value and the Mortality Discharge Status (MtDCStat) = Dead.
3. The Date of Discharge (DischDt) is set equal to the Date of Mortality (MtDate) if DischDt is missing and MtDate contains a valid value and the Mortality Discharge Status (MtDCStat) = Dead.
4. The Mortality Discharge Status (MtDCStat) is set to Dead if the original value is missing and the Date of Admission (AdmitDt), Date of Discharge (DischDt) and Date of Mortality (MtDate) all contain valid values and the MtDate is between the AdmitDt and DischDt.
5. If there are more than one operations record for a given patient for a single admission and the Mortality Discharge Status (MtDCStat) = Dead on any of those records, then the MtDCStat is changed to Dead for any of the other records where MtDCStat is Alive or missing.
6. If there are more than one operations record for a given patient for a single admission and the Mortality 30-Day Status (Mt30Stat) = Dead on any of those records, then the Mt30Stat is changed to Dead for any of the other records where Mt30Stat is Alive or missing.