

<b>Pre Stage</b>
Verify that date/times integers are correctly formatted
All anesthesia codes are character values are between "00100" and "01999"
Admission date less than surgery date
Anesthesia start time is after Anesthesia End Time
Cases m missing required data elemnts,Anesthesia Type, Anesthesia Start/End Times, CPT codes,Staff
All Providers and Facilities in data file must exist in NACOR
All elements having reference type should have a correct value (referential integrity): gender/race/US State, admission/procedure/discharge/disposition/location/monitoring/outpus/lab/units/routes, CQI, staff responsibility/role.
<b>Pre-Producti</b>
Stage Cases and Demographics have an equal amount of rows
ProcedureStatusFK - (within range 1 - 7)
All records have parent in StageAnesthesiaCase
All CPT formatted correctly
All records have parent in StageProcedure
All records have parent in StagePreOP
[AGE] - (within range 0 - 110)
All cases have 2 or less types of Anesthesia Administered.
All records have unique Anesthesia Types
All AnesthesiaStaffID have parent in correct practice
All AnesthesiaStartTime have value greater than 1/1/2010
[CoverageTypeID] - (within range 1 - 7)
[FacilityID] - (All Cases have a facilityID)
[FacilityID] - (All Facilities is in DB)
[AnesthesiaStartTime] - (duration of procedure < 24 hours)
[AnesthesiaStartTime] - (start time < finish time)
[AnesthesiaAQIID] - (ALL IDs are unique)
ALL ASACPT formatted correctly
<b>Post Produc</b>
Anesthesia Type entries not associated with any Anesthesia Case
Cases with no Anesthesia Type Specified
Duplicate Anesthesia types in the AnesthesiaType table
Missing Months per Practice
Anesthesia Start Time is after Anesthesia End Time
Cases in NACOR that do not have any CPT codes
Duplicate Demographics Records
Demographics entries not associated with any Anesthesia
Age is missing from demographics

Based on FacilitiesID - Anesthesia case points to different Practice than Facilities associated with the case.
Anesthesia Case has no facility associated facility.
Missing ASA classes (from I to IV) in the last load
Duplicate Procedures in the Procedure table
Multiple staffID for a practice. Indicating multiple entries for the same provider in the PracticeStaff table.
Cases in NACOR that do not have an entry in the AnesthesiaStaff table meaning there are no providers assigned to the case
Staff in NACOR with no entry on the WEB practicestaff table.
Procedure Date of service between Jan 1 2010 and current date
CPT codes are checked for proper length < 5 characters
CPT codes are checked for proper length > 5 characters
CPT code validity
CPT modifiers are checked for length = 2
CPT modifiers validity
ICD 9 codes are checked for proper length and classification
ICD 10 codes are checked for proper length and classification
Patient age between 0 and 115
ASA Physical Status beteen 1 and 6

<b>Validation</b>
Correct dates if possible, contact practice to submit correct data type
Retain correct codes, censor incorrect codes
Remove Case from data set prior to importing
Remove case from dataset prior to importing
Remove Case from data set prior to importing
New facilities and Staff are inserted into NACOR and Practice updates information about provider through dashboard
If the new value is valid it is added to our common definitions and assigned a proper code. Values that are determined to be invalid are removed and if the data element containing it is determined to be crucial the record in question will be rejected.
<b>on Validation</b>
Remove duplicate rows
Verify range and censor the Procedure status
Review data load for missing records and remove data
Review length censor invalid codes
Review data load for missing records and remove data
Review data load for missing records and remove data
Censor incorrect ages
Verify with practice of multiple anesthesia type censor invalid types
Clean duplicate Anesthesia type for same case
Censor incorrect Staffid for Practice
censor records that are before 01/01/2010
Censor invalid CoverageType
Retain cases without Facilityid
Update Database with new facilities
Verify case more than 24 if too any cases over 24 hours review data and reprocess, retain data and censor duration
censor data where the case end before it starts
Reprocess dataset prior to production loading and remove duplicate ID's
Review length censor invalid codes
<b>tion auditing</b>
Censor data on reports and investigate missing data
Retain case data and show Anesthesia Type as not reported
Retain distinct Anesthesia type for the case
Contact practice about missing data
Censor data from reports
Retain data and contact Practice about missing elements
Retain unique records
Censor data from reports and review data
Calculate based on DOB if submitted if not censor age and retain case data. Contact practice for missing data element.

Update NACOR Table with from the Web table from Practice information
Retain case data and contact practice about missing Facilities
Retain case data and contact practice about missing data element
Retain distinct procedure for report
Contact Practice for current staffid for provider and consolidate information
Retain case information and contact practice about missing staff information
Verify data between both tables and update data accordingly.
Date of service which occurred prior to Jan 1 2010 are dropped, this includes procedures without a date of service
Some CPT codes have leading 0's which are sometimes lost in data transmission. These leading 0's are re-inserted
Sometimes CPT codes are sent with CPT modifiers in the same field, CPT modifiers are removed.
CPT codes are checked against the ASA CPT CROSSWALK to insure they are valid codes (CPT category I, II, III, or HCPCS codes), codes not on this list are nulled out
Modifiers which do not have a valid length = 2 are nulled out
Modifiers which cannot be identified are nulled out
ICD 9 codes not in the ICD 9 DX or SG list (2010 - current year) are nulled out
ICD 10 codes not in the ICD 10 DX or SG list are nulled out
patient age not within range 0 - 115 are nulled out, for data out, patient age >= 90 are reset to 90 to protect the identity of the patient
ASA Physical status outside of range 1 - 6 are nulled out