



**User Guide for the 2023
ACS NSQIP Pediatric
Participant Use Data File (PUF)**

**American College of Surgeons National Surgical
Quality Improvement Program - Pediatric**

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Contents

| Section | Page |
|---|------|
| 1. Introduction | 1 |
| 2. Data Request Process | 1 |
| 3. File Description | 2 |
| 4. Data Collection Background and Data Quality | 2 |
| 5. Sampling Process and Case Inclusion/Exclusion Criteria | 3 |
| 6. Data Limitations | 7 |
| 7. Contact Information | 8 |
| 8. Frequently Asked Questions | 8 |
| 9. Data Variables and Definitions | 12 |

1. Introduction

This document is designed to accompany the 2023 Pediatric Participant Use Data File (PUF) available for download on the American College of Surgeons National Surgical Quality Improvement Program Pediatric (ACS NSQIP Pediatric) website (<https://www.facs.org/quality-programs/data-and-registries/pediatric/>). The sections contained herein will provide the user with information on how to request the Pediatric PUF, the contents of the data files, the data collection background, the inclusion and exclusion criteria for cases and hospitals, the data limitations, and the data point definitions and descriptions.

This user guide applies specifically to the 2023 Pediatric PUF. Hospitals utilizing the Pediatric PUF from a different year should refer to the user guide specifically tailored to that particular data set.

2. Data Request Process

An individual who has an official appointment at a fully enrolled Pediatric site and wants to obtain a copy of the Pediatric PUF can do so by visiting <https://www.facs.org/quality-programs/data-and-registries/pediatric/participant-use-data-file/> and following the steps below:

1. From the ACS NSQIP Pediatric PUF main page the requestor can scroll down towards the bottom of the page after the PUF descriptions.
2. The requestor can then click on the navy blue “Request Data Set” box.
3. This will take the requestor to the Data Use Agreement. This is a 3-page document that implements the data protections of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the ACS NSQIP Hospital Participation Agreement. Delivery of the PUF is contingent on agreement to the terms and conditions specified within the Data Use Agreement. The requestor can read the Data Use Agreement from this page or download the 3-page document. The requestor is then required to type in their first and last name and click on “Request Data File.” By clicking on “Request Data File” the requestor agrees to the terms and conditions of the Data Use Agreement.
4. Requestors will then be required to complete a brief online form to provide ACS with basic information about themselves, including the participating hospital in which they are currently employed and in what capacity, as well as how the requestor plans on using the Pediatric PUF data. Once all of the required fields are completed, the requestor clicks “Submit.”
5. ACS NSQIP staff will review the request in a timely manner. Program contacts at participating sites will be contacted at this time to confirm the requestor’s affiliation with the hospital and confirm internal approval of the PUF request.

6. Following receipt and confirmation of the information submitted, an email will be sent to the requestor containing a username and password along with the URL to download the data. The web link will be active from the time of the email for 10 full days (240 hours).
7. The file will be available in 3 different formats (Text, SAS, SPSS) and depending on the connection speed should take between 5 and 30 minutes to download.
8. The requestor may be contacted to confirm receipt of the data file and allow for feedback on the delivery mechanism, data points contained, and data file format.

3. File Description

Each fall a Pediatric PUF will be made available for the previous calendar year's data. The Pediatric PUF is available in one of three different formats – Text, SAS, and SPSS. The 2023 file contains 297 variables for each case, and a variable-by-variable description is provided starting on page 12. A brief description of the different formats follows:

| File Name | Type | Uncompressed File Size | Description |
|----------------------------|------------------------|------------------------|---|
| ACS_PEDS_PUF_2023.txt | tab delimited TXT file | 285 MB | Contains 305 HIPAA compliant variables on 151,466 cases submitted from 157 sites in 2023. |
| ACS_PEDS_PUF_2023.sas7bdat | SAS 9.4 data file | 946 MB | Same information as stated above in SAS data format. |
| ACS_PEDS_PUF_2023.sav | SPSS 16.0 data file | 542 MB | Same information as stated above in SPSS data format. |

4. Data Collection Background and Data Quality

The ACS NSQIP Pediatric collects data on over 150 variables, including preoperative risk factors, intraoperative variables, and 30-day postoperative mortality and morbidity outcomes for patients undergoing major surgical procedures in both the inpatient and outpatient setting. A site's trained and certified Surgical Clinical Reviewer (SCR) captures these data using a variety of methods including medical chart abstraction.

Required data variables are entered via web-based data collection to the ACS NSQIP Pediatric website. Portions of the data may be automatically populated by a software program that was developed to extract data from the participating hospital's existing information systems.

Requestors should contact the SCR(s) at their hospital for detailed information on how the hospital collects its ACS NSQIP Pediatric data.

To ensure the data collected are of the highest quality, the ACS NSQIP Pediatric has developed a host of different training mechanisms for the SCRs and conducts a Data Audit of selected participating sites. In addition to an initial web-based training program, the ACS NSQIP Pediatric requires SCRs to complete a series of web-based training modules followed by a certification exam that must be taken annually. The modules and certification exam focus on the program, processes, and analysis; preoperative, intraoperative, and postoperative definitions; and case studies. These modules are complemented by a growing online decision support system that ensures the SCRs have the knowledge and resources available to collect high-quality data.

The Data Audit is a fundamental tool of ACS NSQIP Pediatric to assess the quality of the data collected at participating sites. The process involves the review of multiple charts, some of which are selected randomly, and others selected based on criteria designed to identify potential reporting errors. For example, cases with five or more preoperative risk factors and no reported mortality or morbidity or cases with two or fewer preoperative risk factors and reported mortality or morbidity will be selected for chart review. Operating room logs are also audited to ensure correct sampling of cases.

The combined results of the audits completed to date revealed an overall disagreement rate of approximately 2% for all assessed program variables. The ACS NSQIP Pediatric has determined that a Data Audit disagreement rate of 5% or less is acceptable. Sites that have higher than a 5% disagreement rate are not provided a hospital odds ratio in the ACS NSQIP Pediatric Semiannual Report and may be required to undergo an additional audit following recommendations from the ACS NSQIP Pediatric.

5. Sampling Process and Case Inclusion/Exclusion Criteria

Systematic Sampling Process

Large surgical services normally experience a significant volume of surgical cases. This presents the SCRs with the problem of managing an overwhelming workload. Therefore, a systematic sampling system called the 8-day cycle was developed to prevent bias in choosing cases for assessment. The SCR uses the 8-day cycle to select completed cases from the hospital's final operative log. The final operative log includes any emergent, urgent or add-on procedures that were performed and excludes any scheduled procedures that were not performed. The operative log is sorted by the date of the operation, "Patient In Room" time, and finally Operating Room Suite Number. The 8-day cycle schedule works as follows: If the first cycle begins on a Monday, it continues through to include the following Monday (an 8-day period of time). The next cycle begins on Tuesday and continues through to include the following Tuesday, and so on. There are 46 8-day cycles in 1 year, and the program recommends that data be submitted for 40 of those

cycles. The process ensures that cases have an equal chance of being selected from each day of the week.

Hospitals with a high volume of surgical cases capture the first 35 consecutive cases meeting the inclusion/exclusion criteria in the 8-day cycle following the systematic sampling guidelines.

Case Inclusion Criteria

The following inclusion criteria were applied to cases collected in 2023. For the current inclusion/exclusion criteria please contact the ACS NSQIP Pediatric Clinical Support Team at clinicalsupport@pediatric.acsnsqip.org.

- The ACS NSQIP Pediatric includes all cases with CPT codes that are listed on the CPT inclusion list.

Case Exclusion Criteria

The following exclusion criteria were applied to cases collected in 2023. For the current inclusion/exclusion criteria please contact the ACS NSQIP Pediatric Clinical Support Team at clinicalsupport@pediatric.acsnsqip.org.

- Patients 18 years of age, or older.
- Cases involving Hyperthermic Intraperitoneal Chemotherapy (HIPEC), regardless of if the procedure performed has an included CPT code(s).
- ASA 6- (Declared brain-dead patient whose organs are being removed for donor purposes).
- Concurrent Case – An additional operative procedure performed by **a different surgical team** (e.g., a different specialty/service) **under the same anesthetic**. An additional operative procedure with a CPT code different from that of the Primary Procedure performed by a different surgical team under the same anesthetic is listed as a concurrent procedure. A concurrent procedure is not included in its own assessment.
- Multiple cases within 30 days – Multiple cases for the same patient within 30 days are excluded. (Only one case, per patient, per 30 day time frame can be abstracted for NSQIP-PEDs).
- Exclude a return to the operating room/ICU setting as the primary procedure, if it is related to an occurrence or complication from any procedure (surgical or otherwise) regardless of where the procedure was performed, within 30 days or within the same admission.
- Exclude a procedure performed by a surgical service not reviewed in Pediatric NSQIP.
- Transplant Cases – Specifically: A patient who is admitted to the hospital for solid organ transplant surgery, and has additional surgical procedures performed during the same hospital stay, is excluded. Any operation performed after the patient has been discharged from the transplant stay is included.

- **Trauma and Abuse Cases:** Any case caused by a trauma or abuse with a principal ICD-10 diagnostic code within the ranges of S00-T14, T20-T79, T83-T85, and V00-Y99 will be excluded from sampling.
 - **Exception to Trauma/Abuse criteria:** When not caused by abuse, include trauma cases with included CPT codes that involve a fracture to a single limb section, with no other injuries. Capture cases with a single break, even if it crosses over multiple bones.
 - Exclude any surgical procedure related to the index trauma procedure(s) which occur during the same hospitalization. Any operation performed after the patient has been discharged from the trauma stay will be included; if they meet NSQIP-Pediatric program inclusion criteria.
 - Exclude any subsequent surgical procedure that is a direct result of abuse, regardless of timeframe.

Hospital Exclusion Criteria

In addition to the case inclusion/exclusion criteria, hospital inclusion/exclusion criteria are also imposed. To maintain the highest level of data quality, only cases included in the odds ratio analysis are included in the Pediatric PUF. These cases go through an additional level of scrutiny as they are passed from data collection to statistical analysis. Sites that exhibit issues with either data quality or 30-day follow-up are reviewed for exclusion to ensure the integrity of PUF data.

Case Selection

Step 1: Collect Procedure Targeted Cases with Procedure Specific Variables

- Once cases meeting criteria for inclusion have been identified, the Procedure Targeted cases with procedure specific variables are selected first, as they occur in consecutive order, utilizing the procedure targeted CPT list.
 - Each of these cases has a limit of 4 per 8-day cycle. These cases include:
 - Appendectomy
 - Spinal Fusion
 - CSF Shunt* (*See note below for 2022*)
 - Vesicoureteral Reflux
 - Tracheostomy

Step 2: Collect Procedure Targeted Cases without Procedure Specific Variables

- Next, all possible Procedure Targeted cases without procedure specific variables are selected, in consecutive order, utilizing the procedure targeted CPT list. The Procedure Targeted CPT Code Inclusion List is located in the appendices section of the Operations Manual.
- There is a 4 case per cycle limit for Gastrostomy and Laparoscopic Cholecystectomy procedures.

Step 3: Collect Surgical Specialty Cases

- If, after selecting all procedure targeted cases as outlined above, the cycle does not meet 35 cases, the hospital will now select all remaining surgical specialty cases, as they occurred in consecutive order, utilizing the Full CPT list.
- At this point in case selection, case limits on procedure targeted cases are still maintained (only four cases for appendectomy, spinal fusion, CSF shunt, vesicoureteral reflux, tracheostomy, gastrostomy and laparoscopic cholecystectomy).
- Collect all cases until reaching a total of 35 cases.

Step 4: Rounding Out Your Cases to Achieve 35 Cases per Cycle

- If less than 35 cases are abstracted for a cycle after a hospital selects all cases as described in steps 1-3 above, a hospital may opt to collect additional cases to round up to 35 cases utilizing the following process, or they may choose to identify the cycle as “Max cases” under the “Manage Cycles” section of the “My Account” tab in the Workstation.
- If the cycle does not total 35 cases after following the three previous steps, the hospital may opt to “Max Cases” or may continue to capture additional cases of the “limited procedures” Appendectomy, Spinal Fusion, CSF Shunt, VUR, Laparoscopic Cholecystectomy, Gastrostomy, and Tracheostomy, while still following the current sampling methodology (primary procedure, only one case per patient per 30 days, etc.).
- If the cycle still does not total 35 cases, the hospital will identify the cycle as “Max Cases” in the workstation.

*NOTE: The CSF Shunt procedure specific variables were removed from abstraction as of July 1st, 2022. As such, CSF Shunt procedures were removed from Step 1 as of July 1st, 2022, and these cases moved to Step 2 of the sampling process.

6. Data Limitations

While every effort has been made to make the Pediatric PUF as complete as possible, the data do have certain limitations. Some of these limitations have been deliberately introduced to safeguard the privacy of patients (such as removal of absolute dates). Other limitations are due to resource constraints (such as the collection of generic surgical variables only). The following items represent the most salient limitations of the data:

- Because such a wide variety of operations are tracked, the variables are necessarily generic in nature. This limitation may pose difficulties for researchers attempting in-depth research on specific conditions or operations. However, surgical Targeted PUF datasets are now available which address target-specific predictors and outcomes for many types of operations.
- Patients are followed after surgery for a maximum of 30 days. Complications or death after that period are not included.
- In order to comply with HIPAA requirements, all absolute dates have been removed. The most critical of these is the date of surgery, which has been reduced to year of surgery only. Some dates (hospital entry, dates of laboratory tests, and so on) have been recoded into durations e.g. Date of Admission and Date of Discharge is recoded into Hospital Length of Stay.
- In order to comply with the Hospital Participation Agreement (HPA) that is agreed to between the ACS and participating sites, facility identifiers as well as geographic information regarding the case have been removed. The HPA stipulates that the ACS does not identify participating sites. Site identification could be possible even with blinded identifiers through advanced statistics. A stipulation of access to the Pediatric PUF is completion of the Data Use Agreement that strictly prohibits attempts to identify hospitals, health care providers, or patients.
- While many risk factors are tracked, preventative measures are not recorded which can lead to an overestimation of the risk of certain conditions when such measures are routinely taken before surgery.
- The data are submitted from hospitals that are participating in the ACS NSQIP Pediatric and do not represent a statistically valid nationally representative sample.

- Most patients do not receive all possible preoperative laboratory tests, so some of these variables have a high percentage of missing values (53% to 87%, depending on the tests). This high percentage of missing data can make it problematic to use these variables in a traditional logistic regression model as well as in many other types of analysis.

This list may not include all data limitations and additional limitations may apply in future versions of the data.

7. Contact Information

All questions about the Pediatric User Guide or Pediatric PUF, as well as comments and suggestions for improvements are welcome and may be directed to Brian Matel, ACS NSQIP Statistical Reports Manager via email at bmatel@facs.org.

8. Frequently Asked Questions

Request Process

Q: Who has access to this file?

A: Any individual with an official appointment at a fully participating pediatric site will be given access to the file following completion of the Data Use Agreement and a short set of questions that are available on the website.

Q: Is the file available to individuals from nonparticipating sites?

A: At this time the data files are only available to individuals with official appointments at fully participating pediatric sites.

Q: I am at a pediatric NSQIP-participating site and would like to work on a research project with others from a different site that is not participating. Will I be allowed to do that?

A: Yes, however, the NSQIP affiliated researcher must be the lead investigator on all PUF-based research projects and is responsible for the PUF dataset, even if forwarded to someone else. The non-participating collaborator must also sign the DUA.

Q: How do I obtain a copy of this file?

A: Please see the “Data Request Process” on page 1 of this document for a step-by-step approach on how to do so.

Contents of the Files

Q: Are other Pediatric PUF data sets available?

A: There are 37 other Pediatric PUFs available for request / download:

| PUF Year | PUF Type | Cases | Sites | PUF Year | PUF Type | Cases | Sites |
|----------|--------------|---------|-------|----------|-----------------------------|--------|-------|
| 2012 | Pediatrics | 51,008 | 50 | 2016 | Spinal Fusion | 3,728 | 93 |
| 2013 | Pediatrics | 63,387 | 56 | 2017 | Spinal Fusion | 4,260 | 98 |
| 2014 | Pediatrics | 68,838 | 64 | 2018 | Spinal Fusion | 5,333 | 112 |
| 2015 | Pediatrics | 84,056 | 80 | 2019 | Spinal Fusion | 6,153 | 124 |
| 2016 | Pediatrics | 101,887 | 101 | 2020 | Spinal Fusion | 6,019 | 131 |
| 2017 | Pediatrics | 113,922 | 109 | 2021 | Spinal Fusion | 7,125 | 139 |
| 2018 | Pediatrics | 119,486 | 127 | 2022 | Spinal Fusion | 7,045 | 145 |
| 2019 | Pediatrics | 132,881 | 141 | 2016 | CSF Shunt | 1,452 | 96 |
| 2020 | Pediatrics | 128,395 | 148 | 2017 | CSF Shunt | 1,128 | 102 |
| 2021 | Pediatrics | 141,843 | 150 | 2018 | CSF Shunt | 1,493 | 115 |
| 2022 | Pediatrics | 146,331 | 157 | 2019 | CSF Shunt | 2,298 | 131 |
| 2015 | Appendectomy | 10,570 | 20 | 2020 | CSF Shunt | 2,096 | 131 |
| 2016 | Appendectomy | 13,114 | 101 | 2021 | CSF Shunt | 2,411 | 135 |
| 2017 | Appendectomy | 14,463 | 106 | 2020 | Vesicoureteral Reflux (VUR) | 1,742 | 124 |
| 2018 | Appendectomy | 16,986 | 122 | 2021 | Vesicoureteral Reflux (VUR) | 1,807 | 126 |
| 2019 | Appendectomy | 20,658 | 134 | 2022 | Vesicoureteral Reflux (VUR) | 2,305 | 136 |
| 2020 | Appendectomy | 21,445 | 140 | 2021 | SAP | 89,342 | 150 |
| 2021 | Appendectomy | 22,212 | 140 | 2022 | SAP | 93,007 | 157 |
| 2022 | Appendectomy | 22,681 | 148 | | | | |

Q: What is in this file?

A: The file contains Health Insurance Portability and Accountability Act (HIPAA) de-identified data from sites participating in the ACS NSQIP Pediatric that received risk-adjusted reports in 2023. The variable name, variable label, data definition, and other pertinent information are provided in Section 9: Data Variables and Definitions.

Q: Are site identifiers included in the database?

A: At this time, we do not provide any geographic or site-specific identification. We took this approach to ensure the privacy of both the participating sites and surgeons.

Q: Are there surgeon-specific identifiers included in the database?

A: At this time, we do not provide any surgeon-specific information. We took this approach to ensure the privacy of both the participating sites and surgeons.

- Q: Why does the Pediatric PUF exclude specific dates?
- A: In order to release the Pediatric PUF, certain adjustments to the data are required to ensure proper protection of patient information. To meet these requirements, we remove all elements of dates (except admission year) for dates directly related to an individual. For more information on the 18 data elements that are required for removal, please visit <https://privacyruleandresearch.nih.gov/> or https://privacyruleandresearch.nih.gov/pdf/HIPAA_Booklet_4-14-2003.pdf.
- Q: The ACS NSQIP Pediatric program collects approximately 150 variables, but the database contains approximately 300 variables. What are the additional variables?
- A: The additional variables contained in the Pediatric PUF relate to computed durations. For example, the admission and discharge dates are used to calculate hospital length of stay. In addition, each complication in the ACS NSQIP Pediatric requires the use of three different variables in the database. There are a few other data elements collected in the ACS NSQIP Pediatric that require multiple variables in the database.

Values in the Data

- Q: Why do some cases have complications that do not have a known duration from operation to complication?
- A: In each of these cases, the date of the complication was invalid, which inhibited the calculation of duration. The number of days from operation to complication variable is coded as -99 for these cases.
- Q: Why do some of the preoperative lab values have duration from lab to operation, but a value of -99 for the lab value?
- A: The results of the lab tests can be entered manually and thus are susceptible to data entry error. Depending on the preoperative lab variable roughly 1% of the cases had invalid values and these invalid values were set to -99 to simplify analysis. It is also possible that some cases have valid lab values but are missing duration from lab to operation variable. This discrepancy is also related to a data entry error and the program continues to improve the data collection software to minimize the potential for data entry errors.
- Q: When performing analysis on the five-digit CPT codes in the Other and Concurrent variables, how should I interpret those cases with a valid five-digit CPT code but a CPT description set to NULL?
- A: If the case has a valid five-digit CPT code that procedure occurred and should be evaluated as such. The CPT description is a secondary variable and provided for convenience. In the processing of large amounts of data some descriptions are purposefully or inadvertently removed.

File Formats

Q: In what file formats are the data available?

A: The data files are made available in a tab delimited TXT, SAS, and SPSS formats.

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| Advisement: When a change in definitions across PUF years is noted, users should attend to this if they merge files. It is suggested that they evaluate variable categories across years and combine them in a manner appropriate to their research objectives | | | | | | |
|--|--------------------|-----------|---|---|--|---|
| Position # | Variable Name | Data Type | Variable Label | Search Term in Chapter 4 | Variable Options | Comments |
| | | | | Notes: Please search exactly as stated * Variables not included in Chapter 4 | | |
| 1 | PUFYEAR | Num | Year of PUF | * Year of PUF | | |
| 2 | CaseID | Num | Case Identification Number | Variable Name: Identification Number MRN/IDN | | |
| 3 | AGE_DAYS | Num | Age of Patient at Time of Surgery (days) | Variable Name: Date of Birth | | |
| 4 | SEX | Char | Sex | Variable Name: Sex | Male Female Non-binary | NULL = No Response |
| 5 | RACE | Char | Race | Variable Name: Race | American Indian or Alaska Native Asian Black or African American Native Hawaiian or Other Pacific Islander Race combinations with low frequency Some Other Race Unknown/Not Reported White | NULL = No Response Multi-select variable *Race combinations with low frequency" was assigned to cases in which multiple race options were selected and the race combinations had fewer than 50 cases. |
| 6 | ETHNICITY_HISPANIC | Char | Hispanic Ethnicity | Variable Name: Hispanic Ethnicity | Yes; No; Unknown | NULL = No Response |
| 7 | CPT | Char | CPT | Variable Name: Primary Procedure | | |
| 8 | PRNCPTX | Char | Primary Procedure | Variable Name: Primary Procedure | | |
| 9 | WORKRVU | Num | Work Relative Value Unit | * Work Relative Value Unit | | |
| 10 | LAPTHOR | Char | Laparoscopic/MIS Procedure | Variable Name: Laparoscopic/MIS Procedure | Laparoscopic/MIS only Laparoscopic/MIS and Open Open only or N/A | NULL = No Response |
| 11 | PROC_DESC_ST | Char | Procedure Description Stomach | Variable Name: Procedure Description Stomach | Gastrostomy; with exploration or foreign body removal Pyloromyotomy (Fredet-ransstedt type) Biopsy of stomach Excision, local, ulcer, benign tumor of stomach Pyloroplasty Gastrorrhaphy; suture of perforated duodenal or gastric ulcer, wound, or injury Closure of gastrostomy, surgical Closure of gastrocolic fistula Other | NULL = No Response |
| 12 | PROC_DESC_UT | Char | Procedure Description Ureter | Variable Name: Procedure Description Ureter | Ureterectomy, with bladder cuff Ureteroplasty, plastic operation on ureter (e.g.; stricture) Ureterectomy, total, ectopic ureter, combination abdominal, vaginal, and/or perineal Ureterocalycostomy, anastomosis of ureter to renal calyx Ureteroureterostomy Ureteroneocystostomy; Anastomosis of Duplicated Ureter to Bladder Ureteroneocystostomy; With Extensive Ureteral Tailoring Ureteroneocystostomy; With Vesico-Psoas Hitch of Bladder Flap Other | NULL = No Response |
| 13 | PROC_DESC_BLA | Char | Procedure Description Bladder | Variable Name: Procedure Description Bladder | Cutaneous Appendico-vesicostomy Excision of urachal cyst or sinus w/o umbilical hernia repair Cystotomy, for excision of bladder diverticulum, single or multiple Cystectomy, partial, simple Cystoplasty or Cystourethroplasty, plastic operation on bladder or vesical neck, w/o wedge resection of posterior vesical neck Other | NULL = No Response |
| 14 | INOUT | Char | Inpatient/Outpatient | Variable Name: In/Out-Patient Status | Inpatient; Outpatient | NULL = No Response |
| 15 | ADMYR | Num | Year of Admission | Variable Name: Hospital Admission Date/Time | | -.99 = No Response |
| 16 | TRANST | Char | Transfer Status/Origin Status | Variable Name: Transfer Status/Origin Status | Home/Permanent Residence Acute Care Hospital Other Facility | NULL = No Response |
| 17 | OPERYR | Num | Year of Operation | Variable Name: Operation Date | | |
| 18 | HtoODay | Num | Days from Hospital Admission to Operation | * Days from Hospital Admission to Operation | | -.99 = No Response |
| 19 | ANESTECH | Char | Principal Anesthesia Technique | Variable Name: Principal Anesthesia Technique | General – (including IV anesthesia with intubation or Laryngeal Mask Airway (LMA) Spinal Epidural Caudal Regional Local – (usually performed by the surgeon) None Other Unknown | NULL = No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|----|-----------------|------|---|---|--|--|
| 20 | SURGSPEC | Char | Surgical Specialty | Variable Name:Surgical Specialty | Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery Pediatric Orthopedic Surgery Pediatric Otolaryngology (ENT) Pediatric Surgery Pediatric Urology Pediatric Plastics Plastics Cardiovascular-Thoracic General Surgery Gynecology Neurosurgery Orthopedics Otolaryngology (ENT) Urology Interventional Radiology (IR) | |
| 21 | HEIGHT | Num | Height/Length at Surgery (in) | Variable Name:Height/Length | | -99 = No Response Units converted to inches |
| 22 | WEIGHT | Num | Weight at Surgery (lbs) | Variable Name:Weight | | -99 = No Response Units converted to lbs |
| 23 | DNR | Char | Do Not Resuscitate (DNR) Status | Variable Name:DNR Status | Yes; No | NULL = No Response |
| 24 | PREM_BIRTH | Char | Premature Birth | Variable Name:Premature Birth | No Less than 24 completed weeks gestation 24 completed weeks gestation 25-26 completed weeks gestation 27-28 completed weeks gestation 29-30 completed weeks gestation 31-32 completed weeks gestation 33-34 completed weeks gestation 35-36 completed weeks gestation Unknown | NULL = No Response |
| 25 | VENTILAT | Char | Ventilator Dependence | Variable Name:Ventilator Dependence | Yes; No | NULL = No Response |
| 26 | ASTHMA | Char | History of Asthma | Variable Name:History of Asthma | Yes; No | NULL = No Response |
| 27 | HXCLD | Char | Bronchopulmonary Dysplasia/Chronic Lung Disease | Variable Name:Bronchopulmonary Dysplasia/Chronic Lung Disease | Yes; No | NULL = No Response |
| 28 | OXYGEN_SUP | Char | Oxygen Support | Variable Name:Oxygen Support | Yes; No | NULL = No Response |
| 29 | TRACHEOSTOMY | Char | Tracheostomy | Variable Name:Tracheostomy | Yes; No | NULL = No Response |
| 30 | STRUCT_PULM_AB | Char | Structural Pulmonary/Airway Abnormalities | Variable Name:Structural Pulmonary/Airway Abnormalities | Yes; No | NULL = No Response |
| 31 | ESOVAR | Char | Esophageal/Gastric/Intestinal Disease | Variable Name:Esophageal/Gastric/Intestinal Disease | Yes; No | NULL = No Response |
| 32 | PRVPCS | Char | Previous Cardiac Surgery | Variable Name:Previous Cardiac Surgery/Cardiac Intervention | Yes; No | NULL = No Response |
| 33 | CRF | Char | Cardiac Risk Factors | Variable Name:Cardiac Risk Factors | No cardiac risk factors Minor cardiac risk factors Major cardiac risk factors Severe cardiac risk factors | NULL = No Response |
| 34 | IMPCOGSTAT | Char | Developmental Delay/Impaired Cognitive Status | Developmental Delay | Yes; No | NULL = No Response |
| 35 | SEIZURE | Char | Seizure Disorder | Seizure Disorder | Yes; No | NULL = No Response |
| 36 | CEREBRAL_PALSY | Char | Cerebral Palsy | Cerebral Palsy | Yes; No | NULL = No Response |
| 37 | ACQ_ABNORMALITY | Char | Structural CNS Abnormality | Structural CNS Abnormality | Yes; No | NULL = No Response |
| 38 | NEUROMUSCDIS | Char | Neuromuscular Disorder | Neuromuscular Disorder | Yes; No | NULL = No Response |
| 39 | IVH_GRADE | Char | Intraventricular Hemorrhage (IVH) Grade | Intraventricular Hemorrhage (IVH) Grade | Grade 1 Grade 2 Grade 3 Grade 4 IVH reported, but no grade assigned No IVH reported | NULL = No Response |
| 40 | STEROID | Char | Steroid Use | Variable Name:Steroid Use | Yes; No | NULL = No Response |
| 41 | OSTOMY | Char | Ostomy/External Fistula | Variable Name:Ostomy/External Fistula | Yes; No | NULL = No Response |
| 42 | OSTOMY_TYPE | Char | Ostomy Type | Variable Name:Ostomy | Central Nervous System Thorax Upper Gastrointestinal Tract Lower Gastrointestinal Tract Urinary Tract | NULL = No Response Multi-select variable |
| 43 | NUTR_SUPPORT | Char | Nutritional Support | Variable Name:Nutritional Support | Yes; No | NULL = No Response |
| 44 | HEMODISORDER | Char | Hematologic Disorders | Variable Name:Hematologic Disorders | Yes; No | NULL = No Response |
| 45 | PRSEPSIS | Char | SIRS/Sepsis/Septic Shock Within 48 Hours Prior to Surgery | Variable Name:SIRS/Sepsis/Septic Shock | None SIRS Sepsis Septic Shock | NULL = No Response |
| 46 | INOTR_SUPPORT | Char | Inotropic Support at Time of Surgery | Variable Name:Inotropic Support at Time of Surgery | Yes; No | NULL = No Response |
| 47 | CPR_PRIOR_SURG | Char | Previous CPR Within 7 Days Prior to Surgery | Variable Name:Previous CPR | Yes; No | NULL = No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|----|------------------------|------|---|--|--|---|
| 48 | TRANSFUS | Char | Blood transfusions Within 48 Hours Prior to Surgery | Variable Name:RBC Transfusions | Yes; No | NULL = No Response |
| 49 | MALIGNANCY | Char | Childhood Malignancy | Variable Name:Childhood Malignancy | Past history of cancer Current cancer or active treatment of cancer No current or prior history of cancer | NULL = No Response |
| 50 | NEONATE_TYPE | Char | Neonate Type | Variable Name:Neonate Type at Birth | Term Neonate (28 days old or younger born at 37 weeks complete gestation) Premature Neonate (up to 50 weeks post conceptual age born less than 37 weeks of completed gestation) | NULL = No Response |
| 51 | GESTATIONALAGE_BIRTH | Num | Gestational Age at Birth (weeks) | Variable Name:Gestational Age at Birth (in weeks) | | -99 = No Response |
| 52 | GESTATIONALAGE_SURGERY | Num | Gestational Age at Surgery (weeks) | * Patient's post-conceptual age in weeks at time of surgery | | -99 = No Response |
| 53 | NEONATE | Char | Neonate at Time of Surgery | * "YES" is entered when "Neonate Type" is "Term neonate" and operation date is <29 days after date of birth OR "Neonate Type" is "Premature neonate" and "Gestational Age At Surgery" is <51 weeks | Yes; No | NULL = No Response |
| 54 | SM_GESTATIONALAGE | Char | Small for Gestational Age | Variable Name:Small for Gestational Age | Yes; No | NULL = No Response |
| 55 | BIRTH_WGT_UNIT | Char | Birth Weight Unit | Variable Name:Birth Weight | lbs kg Unknown | NULL = No Response |
| 56 | BIRTH_WGT_LB | Num | Birth Weight in Pounds (lbs) | Variable Name:Birth Weight | | -99 = No Response |
| 57 | BIRTH_WGT_OZ | Num | Birth Weight in Ounces (oz) | Variable Name:Birth Weight | | -99 = No Response |
| 58 | BIRTH_WGT_KG | Num | Birth Weight in Kilograms (kgs) | Variable Name:Birth Weight | | -99 = No Response |
| 59 | BIRTH_HGT | Num | Birth Height/Length Value | Variable Name:Birth Length | | -99 = No Response |
| 60 | BIRTH_HGT_UNIT | Char | Birth Height/Length Unit | Variable Name:Birth Length | cm in | NULL = No Response |
| 61 | HEAD_CIRC | Num | Head Circumference Value | Variable Name:Head Circumference | | -99 = No Response |
| 62 | HEAD_CIRC_UNIT | Char | Head Circumference Unit | Variable Name:Head Circumference | cm in | NULL = No Response |
| 63 | BIRTH_LOCATION | Char | Location of Birth | Variable Name:Location of Birth | Inborn; Outborn; Unknown | NULL = No Response |
| 64 | DELIVERY_MODE | Char | Mode of Delivery | Variable Name:Mode of Delivery | Vaginal Delivery Scheduled C-Section Unscheduled C-Section Unknown/Not Documented | NULL = No Response |
| 65 | APGAR_1MIN | Char | APGAR Score 1 Minute | Variable Name: Apgar Score 1 Minute | 0-10; Unknown | NULL = No Response |
| 66 | APGAR_5MIN | Char | APGAR Score 5 Minutes | Variable Name: Apgar Score 5 Minutes | 0-10; Unknown | NULL = No Response |
| 67 | PRSODM | Num | Preoperative Serum Sodium (mEq/L) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 68 | DPRNA | Num | Days from Serum Sodium Preoperative Labs to Operation | * Days from Serum Sodium Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 69 | PRBUN | Num | Preoperative BUN (mg/dL) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 70 | DPRBUN | Num | Days from BUN Preoperative Labs to Operation | * Days from Blood Urea Nitrogen Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 71 | PRCREAT | Num | Preoperative Serum Creatinine (mg/dL) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 72 | DPRCREAT | Num | Days from Serum Creatinine Preoperative Labs to Operation | * Days from Serum Creatinine Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 73 | PRALBUM | Num | Preoperative Albumin (g/dL) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 74 | DPRALBUM | Num | Days from Albumin Preoperative Labs to Operation | * Days from Albumin Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 75 | PRBILI | Num | Preoperative Total Bilirubin (mg/dL) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 76 | DPRBILI | Num | Days from Total Bilirubin Preoperative Labs to Operation | * Days from Total Bilirubin Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 77 | PRSGOT | Num | Preoperative AST/SGOT (U/L) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 78 | DPRSGOT | Num | Days from AST/SGOT Preoperative Labs to Operation | * Days from AST/SGOT Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 79 | PRALKPH | Num | Preoperative Alkaline Phosphatase (U/L) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 80 | DPRALKPH | Num | Days from Alkaline Phosphatase Preoperative Labs to Operation | * Days from Alkaline Phosphatase Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 81 | PRWBC | Num | Preoperative WBC (K/mm3) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 82 | DPRWBC | Num | Days from WBC Preoperative Labs to Operation | * Days from White Blood Cell count Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 83 | PRHCT | Num | Preoperative Hematocrit (%) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 84 | DPRHCT | Num | Days from Hematocrit Preoperative Labs to Operation | * Days from Hematocrit Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 85 | PRPLATE | Num | Preoperative Platelet Count (K/cumm) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 86 | DPRPLATE | Num | Days from Platelet Count Preoperative Labs to Operation | * Days from Platelet Count Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 87 | PRPT | Num | Preoperative Prothrombin Time (seconds) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 88 | DPRPT | Num | Days from Prothrombin Time Preoperative Labs to Operation | * Days from Prothrombin Time Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 89 | PRINR | Num | Preoperative INR | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 90 | DPRINR | Num | Days from INR Preoperative Labs to Operation | * Days from INR Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 91 | PRPTT | Num | Preoperative PTT (seconds) | Variable Name:Preoperative Labs | | -99 = Lab value not obtained or Unknown |
| 92 | DPRPTT | Num | Days from PTT Preoperative Labs to Operation | * Days from PTT Preoperative Labs to Operation | | -99 = Lab value not obtained or Unknown |
| 93 | CASETYPE | Char | Case Acuity | Variable Name:Case Acuity | Elective Urgent Emergent | NULL = No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|-----|-------------|------|---|--|--|---------------------------------|
| 94 | WINDCLAS | Char | Wound Classification | Variable Name:Wound Classification | Clean Clean/Contaminated Contaminated Dirty/Infected | NULL = No Response |
| 95 | ASACLAS | Char | ASA Classification | Variable Name:ASA Classification | ASA 1 – Normal/Healthy ASA 2 – Mild Systemic Disease ASA 3 – Severe Systemic Disease ASA 4 – Severe Systemic Disease Threat ASA 5 – Moribund ASA Not Assigned | NULL = No Response |
| 96 | ANESURG | Num | Duration from Anesthesia Start to Surgery Start (min) | * Duration from Anesthesia Start to Surgery Start in minutes | | -99 = No Response |
| 97 | SURGANE | Num | Duration from Surgery Stop to Anesthesia Stop (min) | * Duration from Surgery Stop to Anesthesia Stop in minutes | | -99 = No Response |
| 98 | DPATRM | Num | Duration Patient is in Operating Room (min) | * Duration Patient is in Room in minutes | | -99 = No Response |
| 99 | ANETIME | Num | Duration of Anesthesia (min) | * Duration of Anesthesia in minutes | | -99 = No Response |
| 100 | OPTIME | Num | Total Operation Time (min) | * Total operation time in minutes | | -99 = No Response |
| 101 | OTHERCPT1 | Char | Other CPT Code 1 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 102 | OTHERPROC1 | Char | Other Procedure Description - 1 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 103 | OTHERWRVU1 | Num | Other Work Relative Value Unit 1 | * Other Work Relative Value Unit 1 | | -99 = No Procedure/No Response |
| 104 | OTHERCPT2 | Char | Other CPT Code 2 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 105 | OTHERPROC2 | Char | Other Procedure Description - 2 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 106 | OTHERWRVU2 | Num | Other Work Relative Value Unit 2 | * Other Work Relative Value Unit 2 | | -99 = No Procedure/No Response |
| 107 | OTHERCPT3 | Char | Other CPT Code 3 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 108 | OTHERPROC3 | Char | Other Procedure Description - 3 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 109 | OTHERWRVU3 | Num | Other Work Relative Value Unit 3 | * Other Work Relative Value Unit 3 | | -99 = No Procedure/No Response |
| 110 | OTHERCPT4 | Char | Other CPT Code 4 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 111 | OTHERPROC4 | Char | Other Procedure Description - 4 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 112 | OTHERWRVU4 | Num | Other Work Relative Value Unit 4 | * Other Work Relative Value Unit 4 | | -99 = No Procedure/No Response |
| 113 | OTHERCPT5 | Char | Other CPT Code 5 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 114 | OTHERPROC5 | Char | Other Procedure Description - 5 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 115 | OTHERWRVU5 | Num | Other Work Relative Value Unit 5 | * Other Work Relative Value Unit 5 | | -99 = No Procedure/No Response |
| 116 | OTHERCPT6 | Char | Other CPT Code 6 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 117 | OTHERPROC6 | Char | Other Procedure Description - 6 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 118 | OTHERWRVU6 | Num | Other Work Relative Value Unit 6 | * Other Work Relative Value Unit 6 | | -99 = No Procedure/No Response |
| 119 | OTHERCPT7 | Char | Other CPT Code 7 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 120 | OTHERPROC7 | Char | Other Procedure Description - 7 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 121 | OTHERWRVU7 | Num | Other Work Relative Value Unit 7 | * Other Work Relative Value Unit 7 | | -99 = No Procedure/No Response |
| 122 | OTHERCPT8 | Char | Other CPT Code 8 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 123 | OTHERPROC8 | Char | Other Procedure Description - 8 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 124 | OTHERWRVU8 | Num | Other Work Relative Value Unit 8 | * Other Work Relative Value Unit 8 | | -99 = No Procedure/No Response |
| 125 | OTHERCPT9 | Char | Other CPT Code 9 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 126 | OTHERPROC9 | Char | Other Procedure Description - 9 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 127 | OTHERWRVU9 | Num | Other Work Relative Value Unit 9 | * Other Work Relative Value Unit 9 | | -99 = No Procedure/No Response |
| 128 | OTHERCPT10 | Char | Other CPT Code 10 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 129 | OTHERPROC10 | Char | Other Procedure Description - 10 | Variable Name:Other Procedures | | NULL = No Procedure/No Response |
| 130 | OTHERWRVU10 | Num | Other Work Relative Value Unit 10 | * Other Work Relative Value Unit 10 | | -99 = No Procedure/No Response |
| 131 | CONCPT1 | Char | Concurrent CPT 1 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 132 | CONCURR1 | Char | Concurrent Procedure Description - 1 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 133 | CONWRVU1 | Num | Concurrent Work Relative Value Unit 1 | * Concurrent Work Relative Value Unit 1 | | -99 = No Procedure/No Response |
| 134 | CONCPT2 | Char | Concurrent CPT 2 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 135 | CONCURR2 | Char | Concurrent Procedure Description - 2 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 136 | CONWRVU2 | Num | Concurrent Work Relative Value Unit 2 | * Concurrent Work Relative Value Unit 2 | | -99 = No Procedure/No Response |
| 137 | CONCPT3 | Char | Concurrent CPT 3 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 138 | CONCURR3 | Char | Concurrent Procedure Description - 3 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 139 | CONWRVU3 | Num | Concurrent Work Relative Value Unit 3 | * Concurrent Work Relative Value Unit 3 | | -99 = No Procedure/No Response |
| 140 | CONCPT4 | Char | Concurrent CPT 4 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 141 | CONCURR4 | Char | Concurrent Procedure Description - 4 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 142 | CONWRVU4 | Num | Concurrent Work Relative Value Unit 4 | * Concurrent Work Relative Value Unit 4 | | -99 = No Procedure/No Response |
| 143 | CONCPT5 | Char | Concurrent CPT 5 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 144 | CONCURR5 | Char | Concurrent Procedure Description - 5 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 145 | CONWRVU5 | Num | Concurrent Work Relative Value Unit 5 | * Concurrent Work Relative Value Unit 5 | | -99 = No Procedure/No Response |
| 146 | CONCPT6 | Char | Concurrent CPT 6 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 147 | CONCURR6 | Char | Concurrent Procedure Description - 6 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 148 | CONWRVU6 | Num | Concurrent Work Relative Value Unit 6 | * Concurrent Work Relative Value Unit 6 | | -99 = No Procedure/No Response |
| 149 | CONCPT7 | Char | Concurrent CPT 7 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 150 | CONCURR7 | Char | Concurrent Procedure Description - 7 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 151 | CONWRVU7 | Num | Concurrent Work Relative Value Unit 7 | * Concurrent Work Relative Value Unit 7 | | -99 = No Procedure/No Response |
| 152 | CONCPT8 | Char | Concurrent CPT 8 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 153 | CONCURR8 | Char | Concurrent Procedure Description - 8 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 154 | CONWRVU8 | Num | Concurrent Work Relative Value Unit 8 | * Concurrent Work Relative Value Unit 8 | | -99 = No Procedure/No Response |
| 155 | CONCPT9 | Char | Concurrent CPT 9 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 156 | CONCURR9 | Char | Concurrent Procedure Description - 9 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 157 | CONWRVU9 | Num | Concurrent Work Relative Value Unit 9 | * Concurrent Work Relative Value Unit 9 | | -99 = No Procedure/No Response |
| 158 | CONCPT10 | Char | Concurrent CPT 10 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|-----|------------------------|------|--|--|---|---------------------------------|
| 159 | CONCURR10 | Char | Concurrent Procedure Description - 10 | Variable Name:Concurrent Procedures | | NULL = No Procedure/No Response |
| 160 | CONWRVU10 | Num | Concurrent Work Relative Value Unit 10 | * Concurrent Work Relative Value Unit 10 | | -99 = No Procedure/No Response |
| 161 | PODIAG10 | Char | Postoperative Diagnosis (ICD 10) | Variable Name:Postoperative Diagnosis ICD Code | | NULL = No Response |
| 162 | PODIAGTX10 | Char | Postoperative Diagnosis Text (ICD 10) | Variable Name:Postoperative Diagnosis ICD Code | | NULL = No Response |
| 163 | HDISDT | Char | Hospital Discharge Year | Variable Name:Acute Hospital Discharge Date | | NULL = No Response |
| 164 | DOptoDis | Num | Days from Operation to Discharge | * Days from Operation to Discharge | | -99 = No Response |
| 165 | DISCHDEST | Char | Discharge Destination | Variable Name:Hospital Discharge Destination | Acute Care Hospital Against Medical Advice (AMA) Expired Home/Permanent Residence Other Facility Unknown | NULL = No Response |
| 166 | TOTHLOS | Num | Length of Total Hospital Stay | * Length of total hospital stay | | -99 = No Response |
| 167 | STILLINHOSP | Char | Still in Hospital > 30 Days | Variable Name:Still In Hospital > 30 Days | Yes | NULL = No Response |
| 168 | OXYGEN_AT_DISCHARGE | Char | Oxygen at Discharge or at 30 Days | Variable Name:Oxygen at Discharge or at 30 Days | Yes; No | NULL = No Response |
| 169 | NUTRITION_AT_DISCHARGE | Char | Nutritional Requirement at Discharge or at 30 Days | Variable Name:Nutritional Requirement at Discharge or at 30 Days | Yes; No | NULL = No Response |
| 170 | DEATH30YN | Char | Death in 30 Days | Variable Name:30-Day Mortality | Yes; No | NULL = No Response |
| 171 | YRDEATH | Char | Year of Death | Variable Name:Date of Death | | NULL = No Response |
| 172 | DEATH30DTUNK | Char | Date of Death is Unknown | Variable Name:Date of Death | Yes | NULL = No Response |
| 173 | DOperoD | Num | Days from Operation to Death | * Days from Operation to Death | | -99 = No Response |
| 174 | IO_CDARREST | Char | Intraoperative Occurrences CPR During Operation | Variable Name:CPR during operation | CPR during operation; No Complication | NULL = No Response |
| 175 | IO_UNPLANNEDXTUB | Char | Intraoperative Occurrences Unplanned Extubation | Variable Name:Unplanned Extubation | Unplanned Extubation; No Complication | NULL = No Response |
| 176 | SUPINFEC | Char | Occurrences Superficial Incisional SSI | Variable Name:Superficial Incisional SSI | Superficial Incisional SSI; No Complication | NULL = No Response |
| 177 | NSUPINFEC | Num | Number of Superficial Incisional SSI Occurrences | * Number of Superficial Incisional SSI Occurrences | | |
| 178 | DSUPINFEC | Num | Days from Operation until Superficial Incisional SSI Complication | * Days from Operation until Superficial Incisional SSI Complication | | -99 = No Response |
| 179 | WINDINF | Char | Occurrences Deep Incisional SSI | Variable Name:Deep Incisional SSI | Deep Incisional SSI; No Complication | NULL = No Response |
| 180 | NWINDINF | Num | Number of Deep Incisional SSI Occurrences | * Number of Deep Incisional SSI Occurrences | | |
| 181 | DWINDINF | Num | Days from Operation until Deep Incisional SSI Complication | * Days from Operation until Deep Incisional SSI Complication | | -99 = No Response |
| 182 | ORGSPCSSI | Char | Occurrences Organ/Space SSI | Variable Name:Organ/Space SSI | Organ/Space SSI; No Complication | NULL = No Response |
| 183 | NORGSPCSSI | Num | Number of Organ/Space SSI Occurrences | * Number of Organ/Space SSI Occurrences | | |
| 184 | DORGSPCSSI | Num | Days from Operation until Organ/Space SSI Complication | * Days from Operation until Organ/Space SSI Complication | | -99 = No Response |
| 185 | DEHIS | Char | Occurrences Wound Disruption/Dehiscence | Variable Name:Wound Disruption/Dehiscence | Wound Disruption; No Complication | NULL = No Response |
| 186 | NDEHIS | Num | Number of Wound Disruption/Dehiscence Occurrences | * Number of Wound Disruption/Dehiscence Occurrences | | |
| 187 | DDEHIS | Num | Days from Operation until Wound Disruption/Dehiscence Complication | * Days from Operation until Wound Disruption/Dehiscence Complication | | -99 = No Response |
| 188 | OUPNEUMO | Char | Occurrences Pneumonia | Variable Name:Pneumonia | Pneumonia; No Complication | NULL = No Response |
| 189 | NOUPNEUMO | Num | Number of Pneumonia Occurrences | * Number of Pneumonia Occurrences | | |
| 190 | DOUPNEUMO | Num | Days from Operation until Pneumonia Complication | * Days from Operation until Pneumonia Complication | | -99 = No Response |
| 191 | REINTUB | Char | Occurrences Unplanned Intubation | Variable Name:Unplanned Intubation | Unplanned Intubation; No Complication | NULL = No Response |
| 192 | NREINTUB | Num | Number of Unplanned Intubation Occurrences | * Number of Unplanned Intubation Occurrences | | |
| 193 | DREINTUB | Num | Days from Operation until Unplanned Intubation Complication | * Days from Operation until Unplanned Intubation Complication | | -99 = No Response |
| 194 | ONVENT48HRS | Char | Occurrences On Ventilator > 48 Hours | Variable Name:On Ventilator > 48 Hours | On Ventilator > 48 Hours; No Complication | NULL = No Response |
| 195 | NONVENT48HRS | Num | Number of On Ventilator > 48 Hours Occurrences | * Number of On Ventilator > 48 Hours Occurrences | | |
| 196 | DONVENT48HRS | Num | Days from Operation until On Ventilator > 48 Hours Complication | * Days from Operation until On Ventilator > 48 Hours Complication | | -99 = No Response |
| 197 | RENAINSF | Char | Occurrences Progressive Renal Insufficiency | Variable Name:Progressive Renal Insufficiency | Progressive Renal Insufficiency; No Complication | NULL = No Response |
| 198 | NRENAINSF | Num | Number of Progressive Renal Insufficiency Occurrences | * Number of Progressive Renal Insufficiency Occurrences | | |
| 199 | DRENAINSF | Num | Days from Operation until Progressive Renal Insufficiency Complication | * Days from Operation until Progressive Renal Insufficiency Complication | | -99 = No Response |
| 200 | OPRENAFL | Char | Occurrences Acute Renal Failure | Variable Name:Acute Renal Failure | Acute Renal Failure; No Complication | NULL = No Response |
| 201 | NOPRENAFL | Num | Number of Acute Renal Failure Occurrences | * Number of Acute Renal Failure Occurrences | | |
| 202 | DOPRENAFL | Num | Days from Operation until Acute Renal Failure Complication | * Days from Operation until Acute Renal Failure Complication | | -99 = No Response |
| 203 | URNINFEC | Char | Occurrences Urinary Tract Infection | Variable Name:Urinary Tract Infection | Urinary Tract Infection; No Complication | NULL = No Response |
| 204 | NURNINFEC | Num | Number of Urinary Tract Infection Occurrences | * Number of Urinary Tract Infection Occurrences | | |
| 205 | DURNINFEC | Num | Days from Operation until Urinary Tract Infection Complication | * Days from Operation until Urinary Tract Infection Complication | | -99 = No Response |
| 206 | CNSCOMA | Char | Coma > 24 Hours | Variable Name:Coma > 24 Hours | Coma >24 hours; No Complication | NULL = No Response |
| 207 | NCNSCOMA | Num | Number of Coma > 24 Hours Occurrences | * Number of Coma > 24 Hours Occurrences | | |
| 208 | DCNSCOMA | Num | Days from Operation until Coma > 24 Hours Complication | * Days from Operation until Coma > 24 Hours Complication | | -99 = No Response |
| 209 | CNSCVA | Char | CVA/Stroke or Intracranial Hemorrhage | Variable Name:Cerebral Vascular Accident/Stroke or Intracranial Hemorrhage | Stroke/CVA with neurological deficit; No Complication | NULL = No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|-----|-----------------------|------|--|---|--|--|
| 210 | NCNSCVA | Num | Number of CVA/Stroke or Intracranial Hemorrhage Occurrences | * Number of CVA/Stroke Occurrences | | |
| 211 | DCNSCVA | Num | Days from Operation until CVA/Stroke or Intracranial Hemorrhage Complication | * Days from Operation until CVA/Stroke Complication | | -99 = No Response |
| 212 | CSZRE | Char | Seizure Disorder | Variable Name:Seizure | Seizure; No Complication | NULL = No Response |
| 213 | NSZRE | Num | Number of Seizure Occurrences | * Number of Seizure Occurrences | | |
| 214 | DSZRE | Num | Days from Operation until Seizure Complication | * Days from Operation until Seizure complication | | -99 = No Response |
| 215 | NEURODEF | Char | Nerve Injury | Variable Name:Nerve Injury (Peripheral) | Nerve Injury ; No Complication | NULL = No Response |
| 216 | NNEURODEF | Num | Number of Nerve Injury Occurrences | * Number of Nerve Injury Occurrences | | |
| 217 | DNEURODEF | Num | Days from Operation until Nerve Injury Complication | * Days from Operation until Nerve Injury Complication | | -99 = No Response |
| 218 | CIVHG1 | Char | Occurrences IVH Grade 1 | Variable Name:Neonatal Intraventricular Hemorrhage (IVH) Grade | IVH Grade 1; No Complication | NULL = No Response |
| 219 | NIVHG1 | Num | Number of IVH Grade 1 Occurrences | * Number of IVH Grade 1 Occurrences | | |
| 220 | DIVHG1 | Num | Days from Operation until IVH Grade 1 Complication | * Days from Operation until IVH Grade 1 Complication | | -99 = No Response |
| 221 | CIVHG2 | Char | Occurrences IVH Grade 2 | Variable Name:Neonatal Intraventricular Hemorrhage (IVH) Grade | IVH Grade 2; No Complication | NULL = No Response |
| 222 | NIVHG2 | Num | Number of IVH Grade 2 occurrences | * Number of IVH Grade 2 Occurrences | | |
| 223 | DIVHG2 | Num | Days from Operation until IVH Grade 2 Complication | * Days from Operation until IVH Grade 2 Complication | | -99 = No Response |
| 224 | CIVHG3 | Char | Occurrences IVH Grade 3 | Variable Name:Neonatal Intraventricular Hemorrhage (IVH) Grade | IVH Grade 3; No Complication | NULL = No Response |
| 225 | NIVHG3 | Num | Number of IVH Grade 3 Occurrences | * Number of IVH Grade 3 Occurrences | | |
| 226 | DIVHG3 | Num | Days from Operation until IVH Grade 3 Complication | * Days from Operation until IVH Grade 3 Complication | | -99 = No Response |
| 227 | CIVHG4 | Char | Occurrences IVH Grade 4 | Variable Name:Neonatal Intraventricular Hemorrhage (IVH) Grade | IVH Grade 4; No Complication | NULL = No Response |
| 228 | NIVHG4 | Num | Number of IVH Grade 4 Occurrences | * Number of IVH Grade 4 Occurrences | | |
| 229 | DIVHG4 | Num | Days from Operation until IVH Grade 4 Complication | * Days from Operation until IVH Grade 4 Complication | | -99 = No Response |
| 230 | CIVHUNK | Char | Occurrences IVH Grade Unknown | Variable Name:Neonatal Intraventricular Hemorrhage (IVH) Grade | Unknown/Specific grade not documented; No Complication | NULL = No Response |
| 231 | NIVHUNK | Num | Number of IVH Grade Unknown Occurrences | * Number of IVH Grade Unknown Occurrences | | |
| 232 | DIVHUNK | Num | Days from Operation until IVH Grade Unknown Complication | * Days from Operation until IVH Grade Unknown Complication | | -99 = No Response |
| 233 | CDARREST | Char | Occurrences Cardiac Arrest Requiring CPR | Variable Name:Cardiac Arrest Requiring CPR | Cardiac Arrest Requiring CPR; No Complication | NULL = No Response |
| 234 | NCDARREST | Num | Number of Cardiac Arrest Requiring CPR Occurrences | * Number of Cardiac Arrest Requiring CPR Occurrences | | |
| 235 | DCDARREST | Num | Days from Operation until Cardiac Arrest Requiring CPR Complication | * Days from Operation until Cardiac Arrest Requiring CPR Complication | | -99 = No Response |
| 236 | OTHBLEED | Char | Occurrences Bleeding/Transfusion | Variable Name:Blood Transfusion | Bleeding/Transfusions; No Complication | NULL = No Response |
| 237 | NOTHBLEED | Num | Number of Bleeding/Transfusion Occurrences | * Number of Bleeding/Transfusion Occurrences | | |
| 238 | DOTHBLEED | Num | Days from Operation until Bleeding/Transfusion Complication | * Days from Operation until Bleeding/Transfusion Complication | | -99 = No Response |
| 239 | BLEED_ML_TOT | Num | Total Blood Transfused (mL) | * Total blood (mL) transfused during bleeding complications | | -99 = No Response *Cell Saver and/or Salvage and/or Autologous* and "Allogeneic" quantities have been combined into total amounts (mL) for this variable. |
| 240 | BLEEDING_AUTOLOGOUS | Num | Cell Saver Blood Used in Transfusion (mL) | Variable Name:Blood Transfusion | | -99 = No Response |
| 241 | BLEEDING_ALLOGENEIC | Num | Allogeneic Blood Used in Transfusion (mL) | Variable Name:Blood Transfusion | | -99 = No Response |
| 242 | OTHVT | Char | Occurrences VT | Variable Name:Venous Thrombosis Requiring Therapy | VT Requiring Therapy; No Complication | NULL = No Response |
| 243 | NOTHVT | Num | Number of VT Occurrences | * Number of VT Occurrences | | |
| 244 | DOTHVT | Num | Days from Operation until VT Complication | * Days from Operation until VT Complication | | -99 = No Response |
| 245 | OTHCDIFF | Char | Occurrence of C.diff Colitis | Variable Name:C.diff Colitis | C.diff; No Complication | NULL = No Response |
| 246 | NOTHCDIFF | Num | Number of C.diff Colitis Occurrences | * Number of C.diff Colitis Occurrences | | |
| 247 | DOTHCDIFF | Num | Days from Operation until C.diff Colitis Complication | * Days from Operation until C.diff Colitis Complication | | -99 = No Response |
| 248 | OTHSEPSIS | Char | Occurrences Sepsis | Variable Name:Postoperative Systemic Sepsis | Systemic Sepsis; No Complication | NULL = No Response |
| 249 | NOTHSEPSIS | Num | Number of Sepsis Occurrences | * Number of Sepsis Occurrences | | |
| 250 | DOTHSEPSIS | Num | Days from Operation until Sepsis Complication | * Days from Operation until Sepsis Complication | | -99 = No Response |
| 251 | OTHSESHOCK | Char | Occurrences Septic Shock | Variable Name:Postoperative Septic Shock | Septic Shock; No Complication | NULL = No Response |
| 252 | NOTHSESHOCK | Num | Number of Septic Shock Occurrences | * Number of Septic Shock Occurrences | | |
| 253 | DOTHSESHOCK | Num | Days from Operation until Septic Shock Complication | * Days from Operation until Septic Shock Complication | | -99 = No Response |
| 254 | OTHCLAB | Char | Occurrences CL Associated Bloodstream Infection | Variable Name:Central-Line Associated Bloodstream Infection | CL Associated Bloodstream Infection; No Complication | NULL = No Response |
| 255 | NOTHCLAB | Num | Number of CL Associated Bloodstream Infection Occurrences | * Number of CL Associated Bloodstream Infection Occurrences | | |
| 256 | DOTHCLAB | Num | Days from Operation until CL Associated Bloodstream Infection Complication | * Days from Operation until CL Associated Bloodstream Infection | | -99 = No Response |
| 257 | READMISSION1 | Char | Any Readmission 1 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 258 | READMPODAYS1 | Num | Days from Operation to Any Readmission 1 | * Days from primary procedure to Any Readmission 1 | | -99 = No Response |
| 259 | UNPLANNEDREADMISSION1 | Char | Unplanned Readmission 1 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 260 | READMRELATED1 | Char | Related Readmission 1 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|-----|-----------------------|------|--|--|--|--------------------|
| 261 | READMREASON1 | Char | Primary Suspected Reason for Readmission 1 | Variable Name:30-Day Readmission | Superficial Incisional SSI Deep Incisional SSI Organ/Space SSI Wound Disruption/Dehiscence Pneumonia Unplanned Intubation Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection Coma > 24 hours Cerebral Vascular Accident/Stroke or Intracranial Hemorrhage Seizure Nerve Injury Neonatal IVH Grade 1 Neonatal IVH Grade 2 Neonatal IVH Grade 3 Neonatal IVH Grade 4 Neonatal IVH Grade unknown/Specific Grade not documented Cardiac Arrest Requiring CPR Blood Transfusion Venous Thrombosis requiring Therapy C.diff Colitis Postoperative Systemic Sepsis Septic Shock Central-Line Associated Bloodstream Infection Other (ICD 10 code) | NULL = No Response |
| 262 | READMREICD101 | Char | Readmission Other Related ICD-10 Code 1 | Variable Name:30-Day Readmission | | NULL = No Response |
| 263 | READMISSION2 | Char | Any Readmission 2 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 264 | READMPODAYS2 | Num | Days from Operation to Any Readmission 2 | * Days from primary procedure to Any Readmission 2 | | -.99 = No Response |
| 265 | UNPLANNEDREADMISSION2 | Char | Unplanned Readmission 2 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 266 | READMRELATED2 | Char | Related Readmission 2 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 267 | READMREASON2 | Char | Primary Suspected Reason for Readmission 2 | Variable Name:30-Day Readmission | See 'Primary Suspected Reason for Readmission 1' | NULL = No Response |
| 268 | READMREICD102 | Char | Readmission Other Related ICD-10 Code 2 | Variable Name:30-Day Readmission | | NULL = No Response |
| 269 | READMISSION3 | Char | Any Readmission 3 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 270 | READMPODAYS3 | Num | Days from Operation to Any Readmission 3 | * Days from primary procedure to Any Readmission 3 | | -.99 = No Response |
| 271 | UNPLANNEDREADMISSION3 | Char | Unplanned Readmission 3 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 272 | READMRELATED3 | Char | Related Readmission 3 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 273 | READMREASON3 | Char | Primary Suspected Reason for Readmission 3 | Variable Name:30-Day Readmission | See 'Primary Suspected Reason for Readmission 1' | NULL = No Response |
| 274 | READMREICD103 | Char | Readmission Other Related ICD-10 Code 3 | Variable Name:30-Day Readmission | | NULL = No Response |
| 275 | READMISSION4 | Char | Any Readmission 4 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 276 | READMPODAYS4 | Num | Days from Operation to Any Readmission 4 | * Days from primary procedure to Any Readmission 4 | | -.99 = No Response |
| 277 | UNPLANNEDREADMISSION4 | Char | Unplanned Readmission 4 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 278 | READMRELATED4 | Char | Related Readmission 4 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 279 | READMREASON4 | Char | Primary Suspected Reason for Readmission 4 | Variable Name:30-Day Readmission | See 'Primary Suspected Reason for Readmission 1' | NULL = No Response |
| 280 | READMREICD104 | Char | Readmission Other Related ICD-10 Code 4 | Variable Name:30-Day Readmission | | NULL = No Response |
| 281 | READMISSION5 | Char | Any Readmission 5 | Variable Name:30-Day Readmission | Yes; No | NULL = No Response |
| 282 | READMPODAYS5 | Num | Days from Operation to Any Readmission 5 | * Days from primary procedure to Any Readmission 5 | | -.99 = No Response |
| 283 | UNPLANNEDREADMISSION5 | Char | Unplanned Readmission 5 | Variable Name:Hospital Readmission | Yes; No | NULL = No Response |
| 284 | READMRELATED5 | Char | Related Readmission 5 | Variable Name:Hospital Readmission | Yes; No | NULL = No Response |
| 285 | READMREASON5 | Char | Primary Suspected Reason for Readmission 5 | Variable Name:Hospital Readmission | See 'Readmission Related Suspected Reason 1' | NULL = No Response |
| 286 | READMREICD105 | Char | Readmission Other Related ICD-10 Code 5 | Variable Name:Hospital Readmission | | NULL = No Response |
| 287 | REOPERATION | Char | Unplanned Reoperation 1 | Variable Name:30-Day Unplanned Return to OR | Yes; No | NULL = No Response |
| 288 | RETORPODAYS | Num | Days from Operation to Unplanned Reoperation 1 | * Days from operation to Unplanned Reoperation 1 | | -.99 = No Response |
| 289 | REOPORCPT1 | Char | Unplanned Reoperation 1 CPT | Variable Name:30-Day Unplanned Return to OR | | NULL = No Response |
| 290 | RETORRELATED | Char | Related Unplanned Reoperation 1 | Variable Name:30-Day Unplanned Return to OR | Yes; No | NULL = No Response |
| 291 | REOPORICD101 | Char | Unplanned Reoperation 1 ICD-10 Code | Variable Name:30-Day Unplanned Return to OR | | NULL = No Response |
| 292 | REOPERATION2 | Char | Unplanned Reoperation 2 | Variable Name:30-Day Unplanned Return to OR | Yes; No | NULL = No Response |
| 293 | RETOR2PODAYS | Num | Days from Operation to Unplanned Reoperation 2 | * Days from operation to Unplanned Reoperation 2 | | -.99 = No Response |
| 294 | REOPOR2CPT1 | Char | Unplanned Reoperation 2 CPT | Variable Name:30-Day Unplanned Return to OR | | NULL = No Response |
| 295 | RETOR2RELATED | Char | Related Unplanned Reoperation 2 | Variable Name:30-Day Unplanned Return to OR | Yes; No | NULL = No Response |
| 296 | REOPOR2ICD101 | Char | Unplanned Reoperation 2 ICD-10 Code | Variable Name:30-Day Unplanned Return to OR | | NULL = No Response |
| 297 | REOPERATION3 | Char | More than 2 Unplanned Reoperations | Variable Name:30-Day Unplanned Return to OR | Yes; No | NULL = No Response |

ACS NSQIP PEDIATRIC 2023 PUF USER GUIDE | OCTOBER 2024

| | | | | Search Term in Chapter 4 | | |
|-----|------------------|------|-------------------------------------|--|--|--------------------|
| 298 | PREOP_COVID | Char | Preoperative Diagnosis of COVID-19 | Variable Name:Preop COVID-19 Diagnosis | Yes, lab-confirmed diagnosis (or ICD-10 code U07.1) Yes, suspected diagnosis (or ICD-10 code U07.2) No | |
| 299 | POSTOP_COVID | Char | Postoperative Diagnosis of COVID-19 | Variable Name: New Postop COVID-19 Diagnosis | Yes, lab-confirmed diagnosis (or ICD-10 code U07.1) Yes, suspected diagnosis (or ICD-10 code U07.2) No | |
| 300 | OPIOID_DISCHARGE | Char | Opioid at Discharge | Variable Name: Opioid at Discharge | Yes; No | NULL = No Response |
| 301 | OPIOID_TYPE_1 | Char | Opioid Type 1 | Variable Name: Type of Opioid | Codeine Hydrocodone Hydromorphone Oxycodone Tramadol Oral Morphine Other | NULL = No Response |
| 302 | OPIOID_TYPE_2 | Char | Opioid Type 2 | Variable Name: Type of Opioid | Codeine Hydrocodone Hydromorphone Oxycodone Tramadol Oral Morphine Other | NULL = No Response |
| 303 | OPIOID_TYPE_3 | Char | Opioid Type 3 | Variable Name: Type of Opioid | Codeine Hydrocodone Hydromorphone Oxycodone Tramadol Oral Morphine Other | NULL = No Response |
| 304 | OPIOID_TYPE_4 | Char | Opioid Type 4 | Variable Name: Type of Opioid | Codeine Hydrocodone Hydromorphone Oxycodone Tramadol Oral Morphine Other | NULL = No Response |
| 305 | OPIOID_TYPE_5 | Char | Opioid Type 5 | Variable Name: Type of Opioid | Codeine Hydrocodone Hydromorphone Oxycodone Tramadol Oral Morphine Other | NULL = No Response |



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