

# Comprehensive Pediatric Data Dictionary Change Log

This document provides a comprehensive record of all changes made to the NYSDOH Pediatric Sepsis and COVID-19 Data Dictionaries Versions D1.1 – 3.0.1 and NYSDOH Pediatric Data Dictionary for Severe Sepsis or Septic Shock Version D4.0.

## Data Dictionary Version D4.0

(Effective beginning 1/1/2024)

Please note that COVID-19 is no longer in the Inclusion Definition for data collection. In addition, some COVID-19 and other variables have been removed from this Pediatric Data Dictionary Version D4.0.

Below is a comprehensive list of changes made to the Pediatric Data Dictionary Version D4.0.

1. Removed COVID-19 and MIS-C references in the *'Key points to remember during data extraction'* section of the data dictionary.
2. Removed the content regarding the CSV Files for NDC codes of medications from the *'Key points to remember during data extraction'* section of the data dictionary.
3. Added information to the *'Key points to remember during data extraction'* section about two new columns that have been provided for optional use by hospitals in the CSV files.
4. Removed COVID-19/MIS-C and Table B references from the *'Inclusion Definition'* section of the data dictionary.
  - a. Removed all prior content referencing COVID-19/MIS-C and Table B
5. Removed the following variables and any associated CSV files from the data dictionary:
  - a. *Demographic Variables*
    - i. ***Inclusion COVID-19***
  - b. *Comorbidity/Risk Factor Variables*
    - i. ***History of COVID-19***
    - ii. ***History of COVID-19 Datetime***
    - iii. ***Medication Immune Modifying Pre-Hospital***
  - c. *Clinical Variables*
    - i. ***COVID-19 Exposure***
    - ii. ***Suspected Source of Infection***
  - d. *Treatment (in hospital) Variables*
    - i. ***During Hospital Immune Modifying Medication***
    - ii. ***Vasopressor Administration***
6. Removed the following code/value of the following variable:
  - a. *Demographic Variables*
    - i. ***Discharge Status***
      1. 09 = Admitted as an Inpatient to this Hospital. Patient admitted to the same short-term medical or specialty hospital where the

hospital-based ambulatory surgery service was performed (excluding chronic disease hospitals).

7. Added the following variable to the data dictionary:
  - a. *Comorbidity/Risk Factor Variables*
    - i. **Long-COVID Post-COVID Syndrome**
8. Updated the Notes of Abstraction for the following variables:
  - a. *Demographic Variables*
    - i. **Discharge Status**
    - ii. **Source of Admission**
    - iii. **Transferred In**
    - iv. **Transferred Out**
  - b. *Outcome (at discharge) Variables*
    - i. **Dialysis Outcome**
    - ii. **Mechanical Ventilation Outcome**
    - iii. **Neurological Outcome**
  - c. *Severity Variables*
    - i. **Lactate Level 1**
    - ii. **Lactate Level 2**
    - iii. **Lactate Level 3**
    - iv. **Lactate Level Max**
9. Revised the name of all the CSV files and the referenced CSV files to reflect the new data dictionary version: change from D3.0.1 to D4.0.
10. A list of the codes that were added, removed, or revised for variables that remain in this data dictionary version can be found in the **Summary of ICD-10 Code Changes\_Ped\_Ver4.0** CSV file. Note this document does not contain the codes in the CSV files that were removed with this Data Dictionary update. CSV files that were removed are listed in #13.
11. Revised the CSV files for all variables to include two new columns for **optional** use by hospitals.
  - a. ICD-10-CM CODE DECIMAL – this column was added so that all ICD-10 codes in the CSV files can be coded with or without a decimal point.
  - b. Subcategory Code – This column applies to all variables that have subcategories (e.g., History of Other Cardiovascular disease where 1 = Coronary heart disease [e.g. angina pectoris, coronary atherosclerosis]; 2 =Peripheral artery disease; etc.)
12. Revised the CSV files for the variables listed below.
  - a. *Treatment (in hospital) Variables*
    - i. Removed ICD-10-PCS codes from the **Mechanical Ventilation Treatment** CSV file: mechanical\_vent\_treatment\_code\_VerD5.0.csv
  - b. *Comorbidity/Risk Factor Variables*
    - i. Added new CSV file and ICD-10 code for **Long-COVID Post-COVID Syndrome**: long\_covid\_post\_covid\_syndrome\_code\_VerD5.0.csv
13. Removed all ICD-10 codes and CSV files for the following variables:
  - a. *Demographic Variables*

- i. ***Inclusion COVID-19***
- b. *Comorbidity/Risk Factor Variables*
  - i. ***Medication Immune Modifying Pre-Hospital***
- c. *Clinical Variables*
  - i. ***COVID-19 Exposure***
  - ii. ***Suspected Source of Infection***
- d. *Treatment (in hospital) Variables*
  - i. ***During Hospital Immune Modifying Medication***
  - ii. ***Vasopressor Administration***

## Data Dictionary Version D3.0.1

(Effective Dates 10/1/2023 – 12/31/2023)

1. Revised the name of all the CSV files to reflect the new data dictionary version: change from D3.0 to D3.0.1.
2. Revised the CSV files for the variables listed below to add and/or revise ICD-10-CM and
3. ICD-10-PCS codes that became effective on 10/1/2023. A summary of changes made to the ICD-10-CM/PCS can be found in the **Summary of ICD-10 Code Changes\_Ped\_VerD3.0.1** document. This document includes the codes that were added or revised for this data dictionary version.
  - a. *Comorbidity/Risk Factor Variables*
    - i. Added ***Acute Cardiovascular Conditions (POA)*** ICD-10-CM codes on the csv file: ped\_acute\_cardiovascular\_conditions\_code\_VerD3.0.1.csv
    - ii. Added and revised ***History of Other Cardiovascular Disease*** ICD-10-CM codes on the csv file:  
ped\_history\_of\_other\_cvd\_code\_VerD3.0.1.csv
    - iii. Added ***Hypertension*** ICD-10-CM codes on the csv file: ped\_hypertension\_code\_VerD3.0.1.csv
    - iv. Added ***Sickle Cell Disease*** ICD-10-CM codes on the csv file: ped\_sickle\_cell\_disease\_code\_VerD3.0.1.csv
  - b. *Clinical Variables*
    - i. Added ***Drug Resistant Pathogen*** ICD-10-CM codes on the csv file: ped\_drug\_resistant\_pathogen\_code\_VerD3.0.1.csv
  - c. *Treatment (in hospital) Variables*
    - i. Added ***Mechanical Ventilation Treatment*** ICD-10-PCS codes on the csv file: ped\_mechanical\_vent\_treatment\_code\_VerD3.0.1.csv

## Data Dictionary Version D3.0

(Effective 1/1/2023 – 9/30/2023)

1. Updated information about CSV file format in *Key points to remember during data extraction*

2. Added reminders to *Key points to remember during data extraction* about attesting to 0 and reporting all variables outlined in the Data Dictionary for all cases that meet inclusion criteria.
3. Added the following variables to *Demographic Variables* section of the data dictionary:
  - a. **Preferred Language**
  - b. **Type of Admission**
4. Changed name of Gender variable to **Sex** in *Demographic Variables*.
5. Updated codes and values for the following *Demographic Variables* to align with SPARCS data dictionaries:
  - a. **Ethnicity**
  - b. **Race**
6. Updated description of **Insurance Number** in *Demographic Variables* to request Medicare Beneficiary Information (MBI) number instead of Health Insurance Claim number (HICN).
7. Added, where applicable, a note to the Notes for Abstraction when a *Demographic Variable* is also collected in SPARCS and provided the SPARCS data element name and SPARCS Definition.
8. Revised the CSV files and the name of the referenced CSV files for the variables listed below.
  - a. *Comorbidity/Risk Factor Variables*
    - i. Added **Medication Immune Modifying Pre-Hospital** NDC codes on the csv file: medication\_immune\_modifying\_ndc\_code\_VerD3.0
  - b. *Treatment (in hospital) Variables*
    - i. Added **During Hospital Immune Modifying Medication** NDC codes on the csv file: medication\_immune\_modifying\_ndc\_code\_VerD3.0
    - ii. Added **Vasopressor Administration** NDC codes on the csv file: vasopressor\_administration\_ndc\_code\_VerD3.0
9. Modified the CSV files for **Vasopressor Administration** and **Medication Immune Modifying Pre-Hospital** and **During Hospital Immune Modifying Medication** to indicate whether an NDC code was added, revised, or removed and if the code was active at the time of data dictionary (DV4.0) publication.
  - a. These CSV files now contain four additional columns: 'Add', 'Revise', 'Active' and 'Remove':
    - i. Add: 1 = newly added NDC code; 0 = not a new addition
    - ii. Revise: 1 = revised description for NDC code; 0 = no revisions
    - iii. Active: 1 = code is active NDC code; 0 = code is inactive NDC code
    - iv. Remove: 1 = code is removed; 0 = no revisions
10. Removed **During Hospital Remdesivir** from *Treatment (in hospital) Variables*.

## Data Dictionary Version D2.0.2

(Effective 10/1/2022 – 12/31/2022)

1. Revised the CSV files and the name of the referenced CSV files for the variables listed

below. Specifically, added ICD-10-CM codes or revised ICD-10-CM code descriptions to align with the ICD-10-CM FY 2023 October 1 release (effective 10/01/2022). Please refer to the Adult D3.0.2 Summary Change CSV file document to see the complete list of ICD-10-CM code changes and their respective variables.

- a. *Comorbidity Variables*
  - i. Added **Chronic Liver Disease** ICD-10-CM codes on the csv file: chronic\_liver\_disease\_code\_VerD2.0.2csv
  - ii. Added **Coagulopathy** ICD-10-CM codes on the csv file: coagulopathy\_code\_VerD2.0.2
  - iii. Added **History of Other Cardiovascular Disease** ICD-10-CM codes on the CSV File: history\_of\_other\_cvd\_code\_verD2.0.2
  - iv. Added **Immunocompromising** ICD-10-CM codes on the CSV File: immunocompromising\_code\_verD2.0.2
  - v. Revised **Lymphoma Leukemia Multiple Myeloma** ICD-10-CM codes on the CSV File: lymphoma\_leukemia\_multi\_myeloma\_code\_verD2.0.2
- b. *Clinical Variables*
  - i. Revised **Suspected Source of Infection** ICD-10-CM codes on the CSV File: suspected\_source\_of\_infection\_code\_verD2.0.2
2. Modified all CSV files to indicate whether a code has been added or whether the code description has been revised.
  - a. All CSV files now contain two columns: 'Add' and 'Revise'
    - i. These two columns are marked off as either: '0' or '1'
      1. '0' means 'No' change (either 'Add' or 'Revise') was made
      2. '1' means 'Yes' change (either 'Add' or 'Revise') was made

## Data Dictionary Version D2.0.1

(Effective 4/1/2022 – 9/30/2022)

1. Modified the "Inclusion Definition" page of the data dictionary:
  - a. Clarified, but did not change, the inclusion criteria for pediatric reporting and added examples
2. Modified the name of the referenced CSV files for the following variables in the
3. *Demographic Variables* section of the data dictionary:
  - a. **Inclusion Septic Shock**
  - b. **Inclusion Severe Sepsis**

## Data Dictionary Version D2.0

(Effective 1/1/2022 – 3/31/2022)

1. Added to the "Key points to remember during data extraction" page of the data dictionary:

- a. Appendices no longer available as of Data Dictionary Version D3.0.
  - b. Modified paragraph on inclusion criteria.
2. Modified the “Inclusion Definition” page of the data dictionary:
  - a. Updated inclusion definition for severe sepsis, septic shock, and COVID-19/MIS-C cases based on inpatient, ED, or Observation status.
  - b. Updated inclusion definition to include newborn patients expired during hospitalization, and severe sepsis/septic shock patients evaluated only in the ED or Observation but never admitted.
  - c. Removed the following ICD-10-CM codes from Table B: COVID-19 inclusion ICD-10- CM codes:
    - i. M358 – Other specified systemic involvement of connective tissue
    - ii. M3589 – Other specified systemic involvement of connective tissue
3. Added eight (8) new variables to the *Demographic Variables* section of the data dictionary:
  - a. ***Inclusion Septic Shock***
  - b. ***Inclusion COVID-19***
  - c. ***Inclusion Severe Sepsis***
  - d. ***Patient City***
  - e. ***Patient County Code***
  - f. ***Patient Street Address Line 1***
  - g. ***Patient Street Address Line 2***
  - h. ***Patient State***
4. Removed the following Note for Abstraction for the ***Patient Zip Code of Residence*** in the *Demographic Variables* section of the data dictionary
  - a. If the hospital does not have the patient’s zip code of residence (e.g., foreign resident, homeless), then the five-digit zip code should be reported as 00000-0000.
5. Added Notes of Abstraction to ***Payer*** in the *Demographic Variables* section of the data dictionary:
  - a. If the patient has no insurance prior to admission and is pending Medicaid approval during hospitalization, please report the payer as Medicaid.
6. Added Notes of Abstraction to clarify the role of POA indicator for these following *Comorbidity/Risk Factor Variables*:
  - a. ***Acute Cardiovascular Conditions (POA)***
  - b. ***Adrenal Gland Disorder (POA)***
  - c. ***Coagulopathy (POA)***
  - d. ***Dialysis Comorbidity (POA)***
  - e. ***Mechanical Ventilation (POA)***
  - f. ***Neutropenic Patients (POA)***
7. Modified variable name and description to the following *Comorbidity/Risk Factor Variables*:
  - a. ***Acquired Absent Spleen***
  - b. ***AIDS/HIV Disease***

- c. *Asthma*
  - d. *Bronchopulmonary Dysplasia*
  - e. *Chronic Liver Disease*
  - f. *Chronic Kidney Disease*
  - g. *Chronic Respiratory Failure*
  - h. *Congestive Heart Failure*
  - i. *Cystic Fibrosis*
  - j. *Diabetes*
  - k. *History of Other Cardiovascular Disease*
  - l. *Hypertension*
  - m. *Immunocompromising*
  - n. *Lymphoma/Leukemia/Multiple Myeloma*
  - o. *Medication Immune Modifying Pre-Hospital*
  - p. *Metastatic Cancer*
  - q. *Obesity*
  - r. *Pregnancy Comorbidity*
  - s. *Prematurity*
  - t. *Sickle Cell Disease*
  - u. *Skin Disorders/Burns*
  - v. *Smoking Vaping*
  - w. *Stem Cell Transplant Recipients*
8. Modified Notes of Abstraction of all variables with references to an appendix.
    - a. With the removal of the Appendix document, the applicable ICD-10/NDC codes are found in the csv file of the corresponding version of the data dictionary.
  9. Modified the Codes and Values of *ICD-10-CM POA Indicator (n)* in the *Demographic Variables* section of the data dictionary:
    - a. Aligned the definition of the Codes and Values to the official indicator definitions (CMS).
    - b. Replaced “E = Exempt from POA reporting” to “1 = Unreported/Not used. Exempt from POA reporting”
  10. Added Notes of Abstraction to *ICD-10-CM POA Indicator (n)* in the *Demographic Variables* section of the data dictionary:
    - a. *ICD-10-CM POA Indicator (n)* is mandatory. In rare instances, when the values are truly unattainable from the EHR, report missing values as blank.
    - b. *ICD-10-CM POA Indicator (n)* is not applicable to emergency department (ED)/observation only cases. For ED/observation only cases, report as blank.
  11. Added Notes of Abstraction to *Obesity* in the *Comorbidity/Risk Factor Variables* section of the data dictionary:
    - a. Report “1”, if the patient has a BMI that is in the 95<sup>th</sup> percentile or higher for age even if the patient does not have one of the ICD-10-CM codes listed in the referenced csv file.
    - b. Report “0”, if the patient does not have one of the ICD-10-CM codes listed in the referenced csv file, does not have a BMI that is in the 95<sup>th</sup> percentile or

higher for age in the EHR, or does not have a BMI value of 30 or higher in the EHR.

12. Modified variable name and the Description and the Notes of Abstraction of **History of COVID-19 (POA)** in the *Comorbidity/Risk Factor Variables* section of the data dictionary to include “within 12 weeks” timeframe.
13. Modified variable name and added Notes of Abstraction to **History of COVID-19 Datetime** in the *Comorbidity/Risk Factor Variables* section of the data dictionary:
  - a. If the **History of COVID-19** is reported as “0 = No”, then **History of COVID-19 Datetime** should be reported as blank.
14. Modified variable name of **Chronic Renal Failure (POA)** in the *Comorbidity/Risk Factor Variables* section of the data dictionary to: **Chronic Kidney Disease**.
15. Removed the following Note for Abstraction for the **COVID-19 Virus** in the *Clinical Variables* section of the data dictionary:
  - a. “This applies to both present on admission/arrival (POA) or acquired during hospitalization.”
16. Removed the following *Comorbidity/Risk Factor Variables* from the data dictionary and the csv file:
  - a. **Altered Mental Status (POA)**
  - b. **Medication Anticoagulation (POA)**
17. Removed the following *Treatment Variables* from the data dictionary and the csv file:
  - a. **During Hospital Anticoagulation**
18. Removed the following *Outcome (at discharge) Variables* from the data dictionary and the csv file:
  - a. **Cardiovascular Outcomes at Discharge**
19. Removed the following *Outcome (in hospital) Variables* from the data dictionary and the csv file:
  - a. **PE/DVT**
20. Revised the name of all pediatric csv files to distinguish from the adult csv files by adding “ped” to the beginning of the csv file name
21. Revised the file names for the following *Comorbidity Variables* csv files to correct spelling errors:
  - a. **Sickle Cell Disease (POA)**
    - i. sickle\_cell\_disease\_code\_VerD2.0.csv changed to ped\_sickle\_cell\_disease\_code\_VerD2.0.csv
  - b. **Skin Disorders/Burns (POA)**
    - i. skin\_disorders\_burn\_disease\_code\_VerD.X.csv changed to ped\_skin\_disorders\_burn\_disease\_code\_VerD2.0.csv
22. Revised **Dialysis Treatment** ICD-10-PCS codes on the csv file: dialysis\_treatment\_code\_VerD2.0.csv
  - a. Removed the following ICD-10-PCS codes:
    - i. 5A1D00Z – Performance of Urinary Filtration Single
    - ii. 5A1D60Z – Performance of Urinary Filtration Multiple
  - b. Added the following ICD-10-PCS code:

i. 3E1M39Z – Peritoneal Dialysis

## Data Dictionary Version D1.1

(Effective Dates 12/1/2020 – 12/31/2021)

1. Modified paragraph on hospital transfer in the *Key point to remember during data extraction* page of the data dictionary.
2. Added sentence to the first paragraph of the *Inclusion Definition* page of the data dictionary.
3. Added new ICD-10 codes to Severe COVID-19 inclusion ICD-10-CM codes in the *Inclusion Definition* page of the data dictionary
4. Added eight (8) new variables to the *Demographic Variables* section of the data dictionary.
5. Added one (1) new variable to the *Comorbidity/Risk Factor (POA) Variables* section of the data dictionary.
6. Removed “(POA)” from the Dataset Segment “Comorbidity/Risk Factor (POA) Variables.”
7. Added “(POA)” to the applicable Data Element Name of the Comorbidity/Risk Factor Variables and updated the Description/Notes of Abstraction of these variables.
8. Changed mandatory status from “No” to “Yes” to applicable variables and updated the Description/Notes of abstraction of these variables, allowing for blanks to be submitted for missing data.
9. Modified the Format – Length of the following variables:
  - a. *History of Other Cardiovascular Disease*
  - b. *Patient Care Considerations*
  - c. *Cardiovascular Outcomes at Discharge*
  - d. *Cardiovascular Outcomes in Hospital*
  - e. *Neurological Outcome*
10. Modified the name of the Dataset Segment from “during hospitalization” to “in hospital” for the treatment and outcome variables.
11. Modified the Codes and Values of *Skin Disorders/Burns (POA)*
12. Updated Notes of Abstraction for clarification on these variables:
  - a. *Insurance Number*
  - b. *Patient Zip Code of Residence*
  - c. *Patient Care Considerations*
  - d. *Pregnancy Status During Hospitalization*
  - e. *Diastolic First, Diastolic Second, Diastolic Third, Diastolic Min*, and corresponding *Datetimes*
  - f. *Lactate Level 1/2/3/Max*
  - g. *Platelets 1/2/3/Min*
  - h. *SIRS Leukocyte Arrival/Min/Max*
  - i. *Systolic First, Systolic Second, Systolic Third, Systolic Min, and corresponding Datetimes*