

# Collaborative Pediatric Critical Care Research Network Pediatric Intensive Care Quality of CPR (PICqCPR) Study

## Overview of Public Use Datasets

This document provides an overview of the general principles used in creating the public use datasets for the Collaborative Pediatric Critical Care Research Network (CPCCRN) PICqCPR study. There are a total of 11 datasets available as both CSV and SAS® (.SAS7BDAT) files (with formats and labels). Accompanying documentation and resources provided include the study protocol, the annotated CRF, and, for each dataset, a PDF document summarizing variables in the associated dataset (i.e., frequency distributions or descriptive statistics). For SAS software users, an example script to set up the SAS library and apply SAS formats is also provided. The annotated CRF should be referenced frequently during analysis as this is the most complete reference of all variables included in each dataset. Please see the attached Research Data Use Agreement (RDUA) for a description of intended use and disclaimer.

### GENERAL PRINCIPLES FOR CREATION OF DATASET

1. The population for the public use dataset is all eligible CPR events. For subject-level datasets, the population is subjects who had at least one eligible CPR event. See the protocol for a detailed list of inclusion/exclusion criteria and for additional details of study conduct.
2. The datasets are primarily based on raw data as collected by the clinical sites. All variables are described in the annotated CRF.
3. Open text fields and other variables have been reviewed for sensitive or identifying information and modified as needed. Dates were recoded to be the number of days since hospital admission.
4. Within each dataset, the PudID is a masked identifier. The annotated CRF provides information as to the structure of each dataset and the unique identifier for each record.

### LIST OF PUBLIC USE DATASETS AVAILABLE

- Baseline FSS and PCPC Scores (BASEFSS)
  - One row per subject
    - PudID is the unique identifier.
- CPR Event Information (CPREVENT)
  - One row per event
    - PudID and Occurrence uniquely identify each event.
- Demographic Information (DEMOG)
  - One row per subject
    - PudID is the unique identifier.
- Eligibility Information (ELIGIBILITY)
  - One row per event
    - PudID and Occurrence uniquely identify each event.
- End-tidal CO<sub>2</sub> Information (ETCO2)
  - One row per 30-second CPR epoch
    - PudID, Occurrence, and EpochNumber uniquely identify each 30-second epoch.
- Hospital Admission and Discharge Data, including FSS and PCPC Scores at Discharge (HOSPDATES)
  - One row per subject
    - PudID is the unique identifier.
- ICU Admission and Discharge Data, including FSS and PCPC Scores at Discharge (ICUDATES)

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- One row per subject
  - PudID is the unique identifier.
- Instantaneous Chest Compression Rate Data (UPDATEDCCRATES)
  - One row per minute of CPR
    - PudID, Occurrence, and MinuteCPR uniquely identify each minute of CPR.
- Vital Signs after CPR Event (VITALSPOST)
  - One row per minute of CPR
    - PudID, Occurrence, and VitalsMinutePost uniquely identify each minute of CPR.
- Vital Signs before CPR Event (VITALSPRE)
  - One row per minute of CPR
    - PudID, Occurrence, and VitalsMinutePrior uniquely identify each minute of CPR.
- Waveform Data Log (WAVEPI\_EXTRACT)
  - One row per minute of CPR
    - PudID, Occurrence, and MinuteCPR uniquely identify each minute of CPR.

**Included in this Pediatric Intensive Care Quality of CPR (PICqCPR) Public Use Dataset (PUD) are the following:**

1. PICqCPR Protocol (PICqCPR Protocol v1.03 28 Jan 15.pdf): The most recent or most applicable version of the PICqCPR Protocol.
2. Protocol Summary (PICqCPR Protocol Summary.pdf): Concise synopsis of study objectives and findings.
3. Overview Document (Overview of PICqCPR Public Use Datasets.pdf): Technical document describing PICqCPR-specific PUD processes.
4. PICqCPR PUD: 11 SAS datasets and SAS format library.
  - a. basefss.sas7bdat
  - b. cprevent.sas7bdat
  - c. demog.sas7bdat
  - d. eligibility.sas7bdat
  - e. etco2.sas7bdat
  - f. formats.sas7bdat
  - g. hospdates.sas7bdat
  - h. icudates.sas7bdat
  - i. updatedccrates.sas7bdat
  - j. vitalspost.sas7bdat
  - k. vitalspre.sas7bdat
  - l. wavepi\_extract.sas7bdat
5. PICqCPR PUD: 11 CSV datasets.

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- a. BASEFSS.csv
  - b. CPREVENT.csv
  - c. DEMOG.csv
  - d. ELIGIBILITY.csv
  - e. ETCO2.csv
  - f. HOSPDATES.csv
  - g. ICUDATES.csv
  - h. UPDATEDCCRATES.csv
  - i. VITALSPOST.csv
  - j. VITALSPRE.csv
  - k. WAVEPI\_EXTRACT.csv
6. Variable Summaries: Summary statistics for variables in the PUD.
- a. Summary of BASEFSS.pdf
  - b. Summary of CPREVENT.pdf
  - c. Summary of DEMOG.pdf
  - d. Summary of ELIGIBILITY.pdf
  - e. Summary of ETCO2.pdf
  - f. Summary of HOSPDATES.pdf
  - g. Summary of ICUDATES.pdf
  - h. Summary of UPDATEDCCRATES.pdf
  - i. Summary of VITALSPOST.pdf
  - j. Summary of VITALSPRE.pdf
  - k. Summary of WAVEPI\_EXTRACT.pdf
7. SAS program to import PUD (Example SAS program to read in SAS datasets and apply formats.sas): This program can be modified to read in SAS datasets and apply SAS formats.
8. Annotated eCRF (PICqCPR\_Annotated eCRF\_PUD\_22May2018.pdf): This file provides detailed documentation of the datasets including variables names, data types, and formatted values.
9. Other documentation or information as determined by the study team, DCC Principal Investigator, or the Funding Agency.
- a. PICqCPR MOO v1.03.02 06Jan16.pdf
  - b. CPCCRN PICqCPR Complete FAQ.pdf

Please note: These files can only be released to investigators that have been granted access to this public use dataset.