University of Utah
Central Data Management Coordinating Center

ANNOTATED eCRF FOR PUBLIC USE DATASETS

The CRISIS Prevention Trial

The Critical Illness Stress-Induced Immune Suppression Prevention Trial

CPCCRN Protocol Number 003

Primary Investigator:
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University of Pittsburgh
Children's Hospital of Pittsburgh

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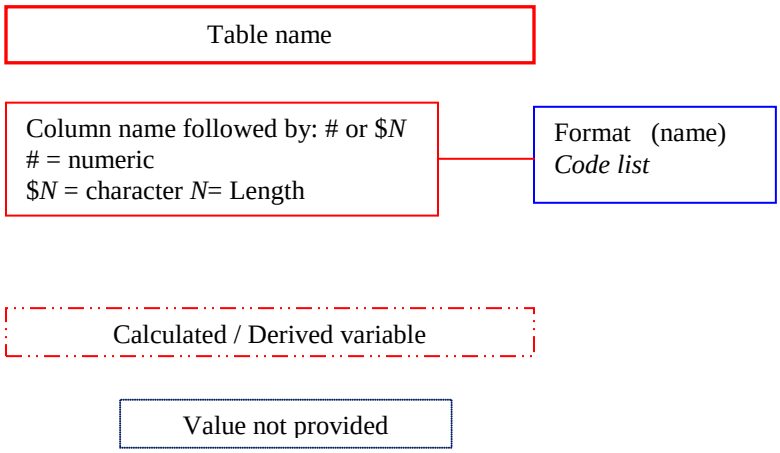
Annotations key:



Notes:

All dates have been recoded to reflect the number of calendar days from randomization.

Sensitive and/or identifying information entered in free text fields has been removed from the public use datasets.

studyForm Format:

VALUE	LABEL
0	Demographics
1	Randomization
2	Baseline and Pre-dosing
2.1	Physical Examination
2.2	PRISM III
3	Study Day 1
4	Study Day 2
5	Study Day 3
6	Study Day 4
7	Study Day 5
8	Study Day 6
9	Study Day 7
10	Study Day 8
11	Study Day 9
12	Study Day 10
13	Study Day 11
14	Study Day 12
15	Study Day 13
16	Study Day 14
17	Study Day 15
18	Study Day 16
19	Study Day 17
20	Study Day 18
21	Study Day 19
22	Study Day 20
23	Study Day 21
24	Study Day 22
25	Study Day 23
26	Study Day 24
27	Study Day 25
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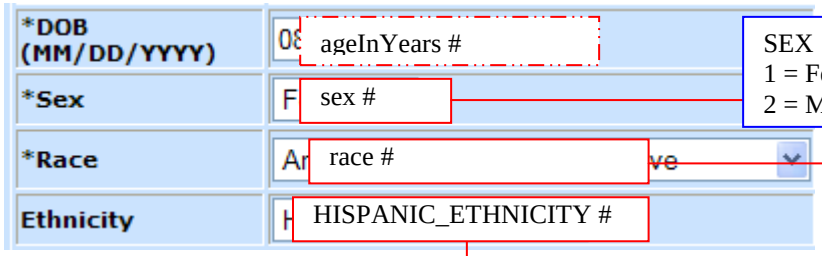
DEMOGRAPHICS (1 of 1)

Demographics

Unique ID = subjectID

subjectID #

studyForm #



SEX
1 = Female
2 = Male

Race
1 = American Indian or Alaska Native
2 = Asian
3 = Black or African American
4 = Native Hawaiian or Other Pacific Islander*
5 = White
6 = Stated as Unknown
7 = Other

*Combined with 7 = Other, for RACE format

DV6484G
-1 = Hispanic or Latino
0 = Not Hispanic or Latino
1 = Unknown

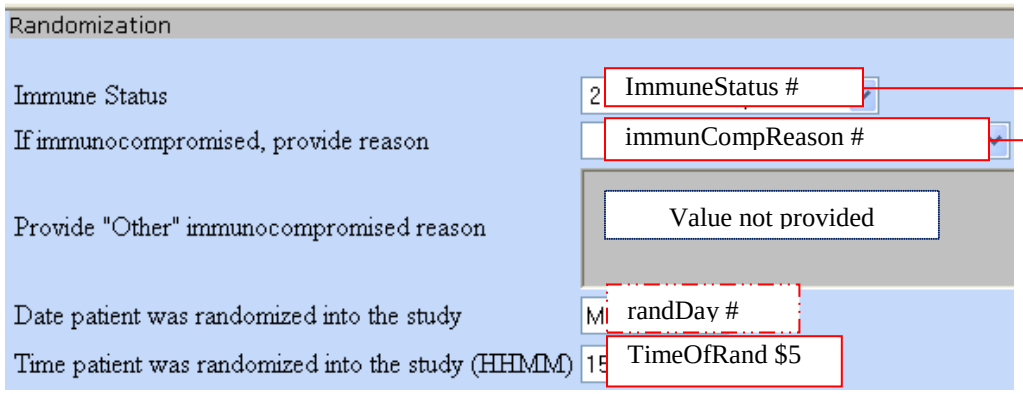
RANDOMIZATION (1 of 1)

Randomization

Unique ID = subjectID

subjectID #

studyForm #



DV6618G
1 = Immune Competent
2 = Immune Compromised

370 (ImmunCompChoices)
1 = Bone Marrow Transplant Recipient
2 = Other Organ Transplant Recipient
3 = Cancer Patient *
4 = Human Immunodeficiency Virus *
5 = Other

*Combined with 5 = Other, for IMMUNCOMPCHOICES format in PUD

Variables from analysis dataset included in the RANDOMIZATION dataset:

Variable	Format	Type	Label	Algorithm / Notes
itt	YESNO.	#	Intent-to-treat Population	=1 if randomized, =0 if not randomized
safe	YESNO.	#	Safety Population	=1 if patient received any study drug, =0 otherwise
trtRand	TRT.	#	Randomized Treatment Group	Treatment assigned by randomization
trtRec	TRT.	#	Treatment Received	Actual treatment received by patient

YESNO
0 = No
1 = Yes

TRT
1 = WHEY
2 = ZSGM

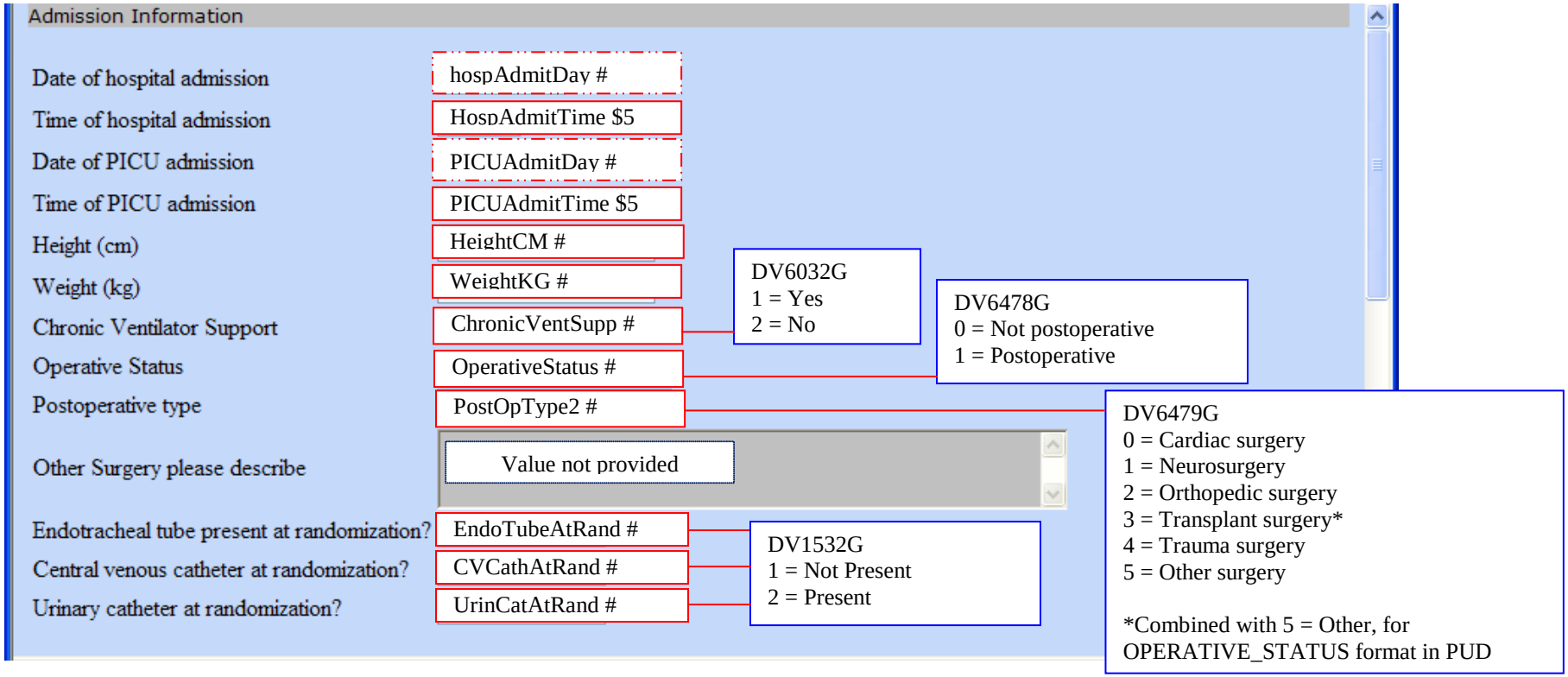
BASELINE (1 of 2)

Baseline and Pre-Dosing

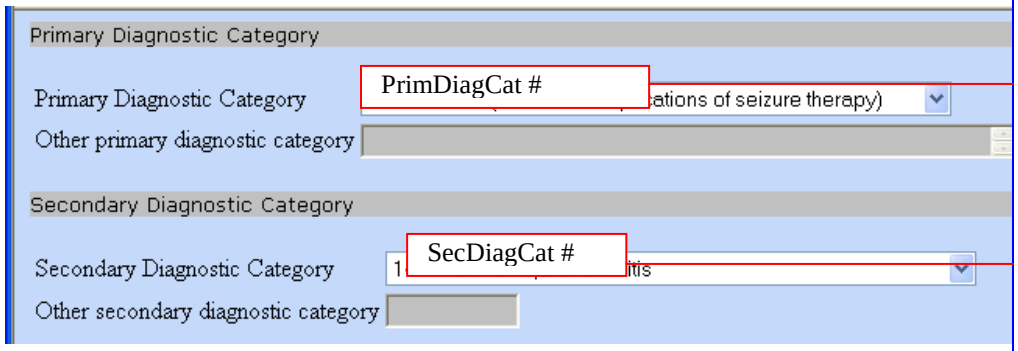
Unique ID = subjectID

subjectID #

studyForm #



BASELINE (2 of 2)



DV6624G
1 = Asthma (reactive airway disease)
2 = Cancer**
3 = Cardiac arrest w/in 24 hours (closed heart compressions)
4 = Chromosomal abnormality (not hereditary)
5 = Diabetes**
6 = Drug overdose (e.g. ingestion, toxicity)*, **
7 = Gastroesophageal reflux **
8 = Cardiovascular disease – acquired**
9 = Cardiovascular disease – congenital
10 = HIV infection*
11 = Hypoxic-ischemic encephalopathy (acute, not static)*, **
12 = Medical device malfunction
13 = Meningitis*, **
14 = Pneumonia/bronchiolitis
15 = Seizures (includes complications of seizure therapy)
16 = Sepsis
17 = Shock
18 = Suicide attempt (includes intentional drug overdose)
19 = Transplant*, **
20 = Trauma**
21 = None
22 = Other

*Combined with 22 = Other, for PRIDIAGNOSTICCAT format in PUD

** Combined with 22 = Other, for SECDIAGNOSTICCAT format in PUD

Variables from analysis dataset included in the BASELINE dataset:

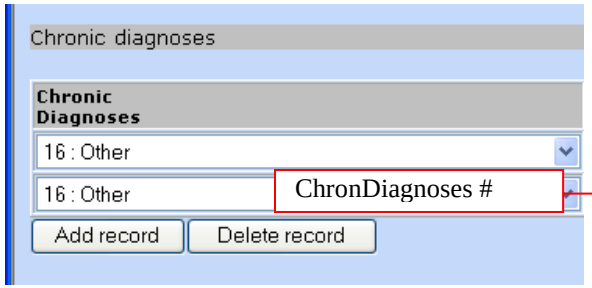
Variable	Format	Type	Label	Algorithm / Notes
PRISMIIICalcS	11.	#	Baseline PRISM III Total Score	Based on the first 12 hours of PICU admission

BASELINE_CHRONICDIAG (1 of 1)

Baseline – Chronic Diagnoses

Unique ID = subjectID, Repeat_instance

subjectID # | studyForm # | Repeat_instance #



DV581G
1 = Bronchopulmonary dysplasia (BPD)*
2 = Cancer (oncologic disease)
3 = Cerebral palsy
4 = Chromosomal abnormality (not hereditary conditions)
5 = Congenital heart diseaase
6 = Diabetes*
7 = HIV infection
8 = Hydrocephalus
9 = Intraventricular hemorrhage (from perinatal period)
10 = Mental retardation
11 = Meningomyelocele/spina bifida*
12 = Short gut syndrome*
13 = Static encephalopathy
14 = Transplant
15 = None
16 = Other

*Combined with 16 = Other, for CHRONICDIAGNOSES format in PUD

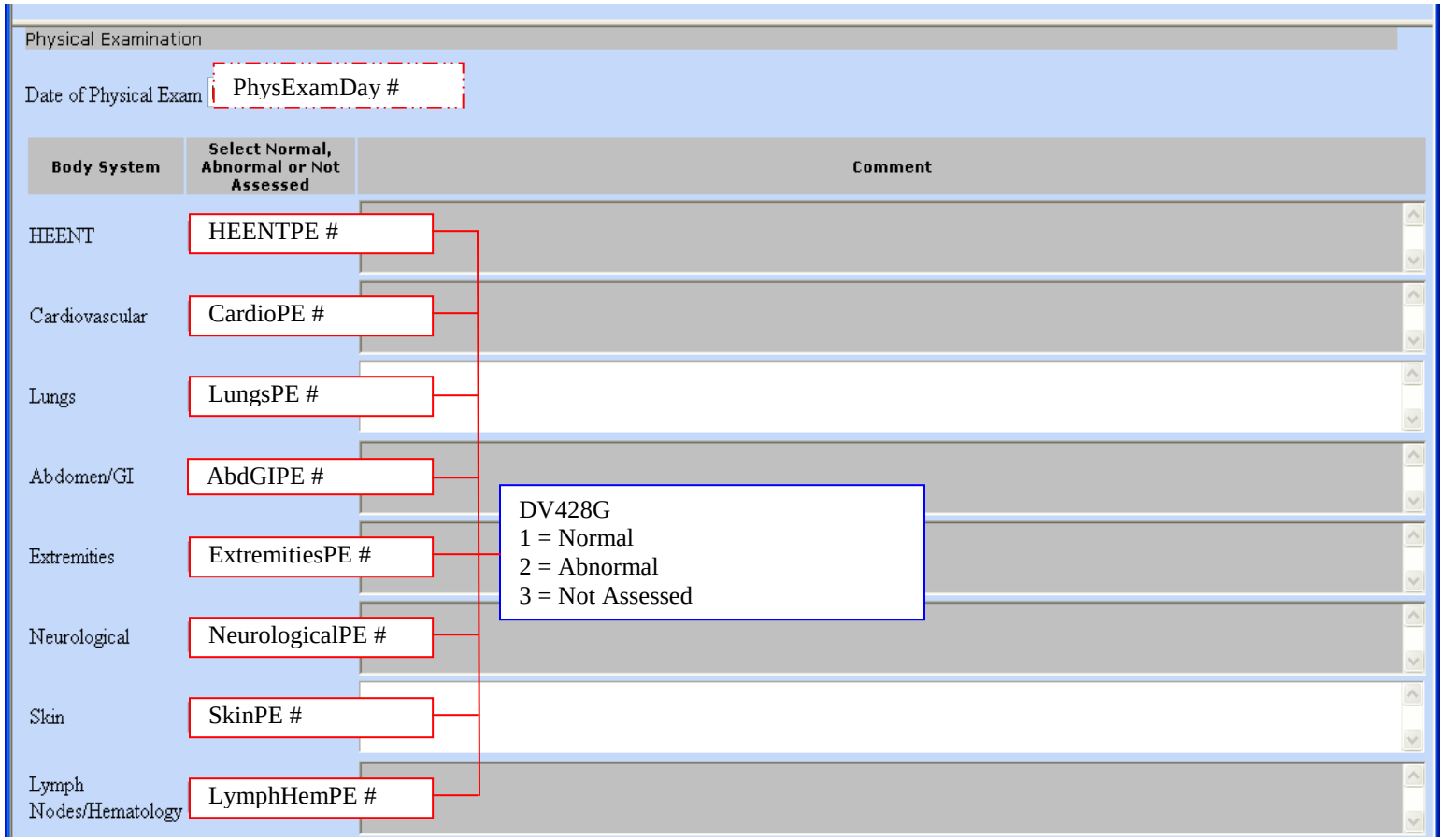
PHYSICAL_EXAMINATION (1of 1)

Physical Examination

Unique ID = subjectID

subjectID #

studyForm #



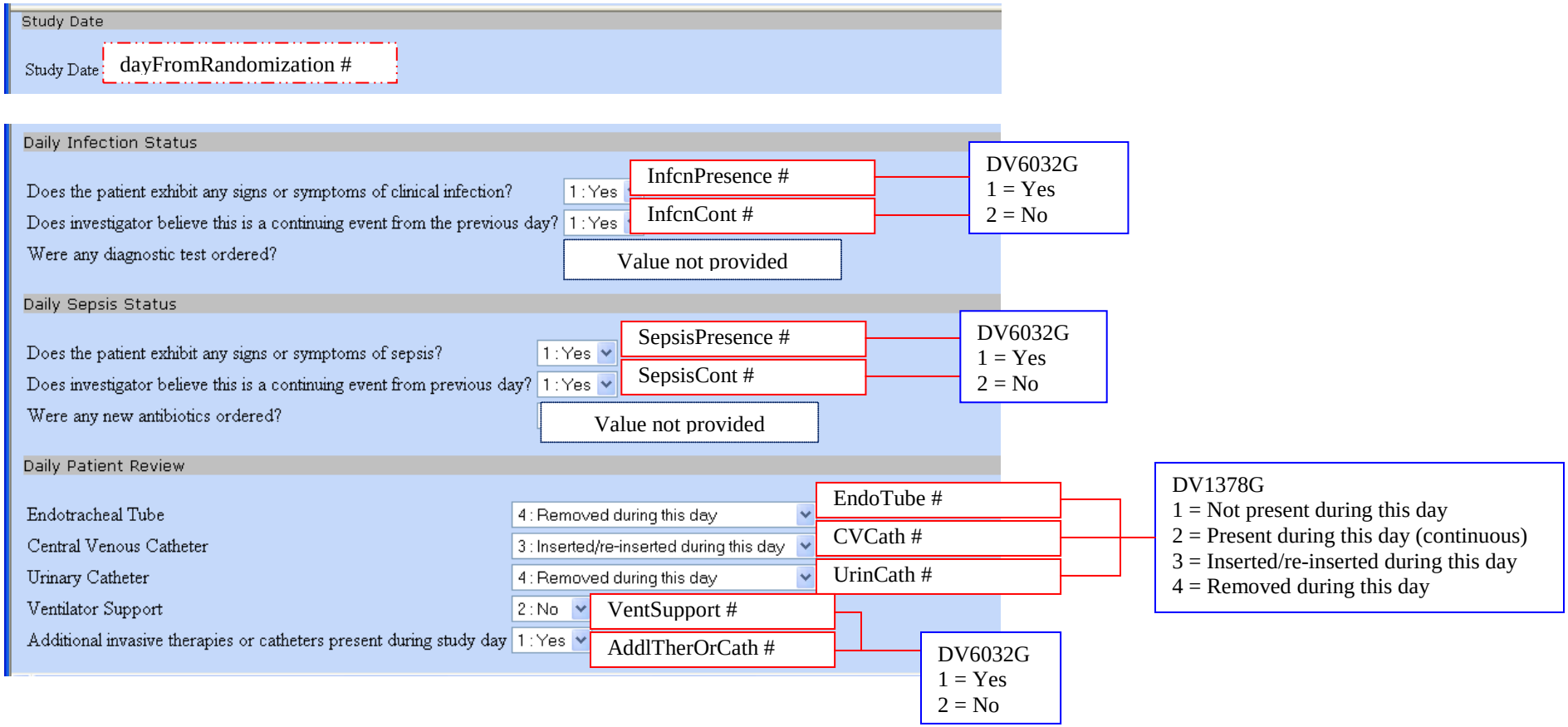
DAILYDATA (1of 3)

Daily Data / Follow Up

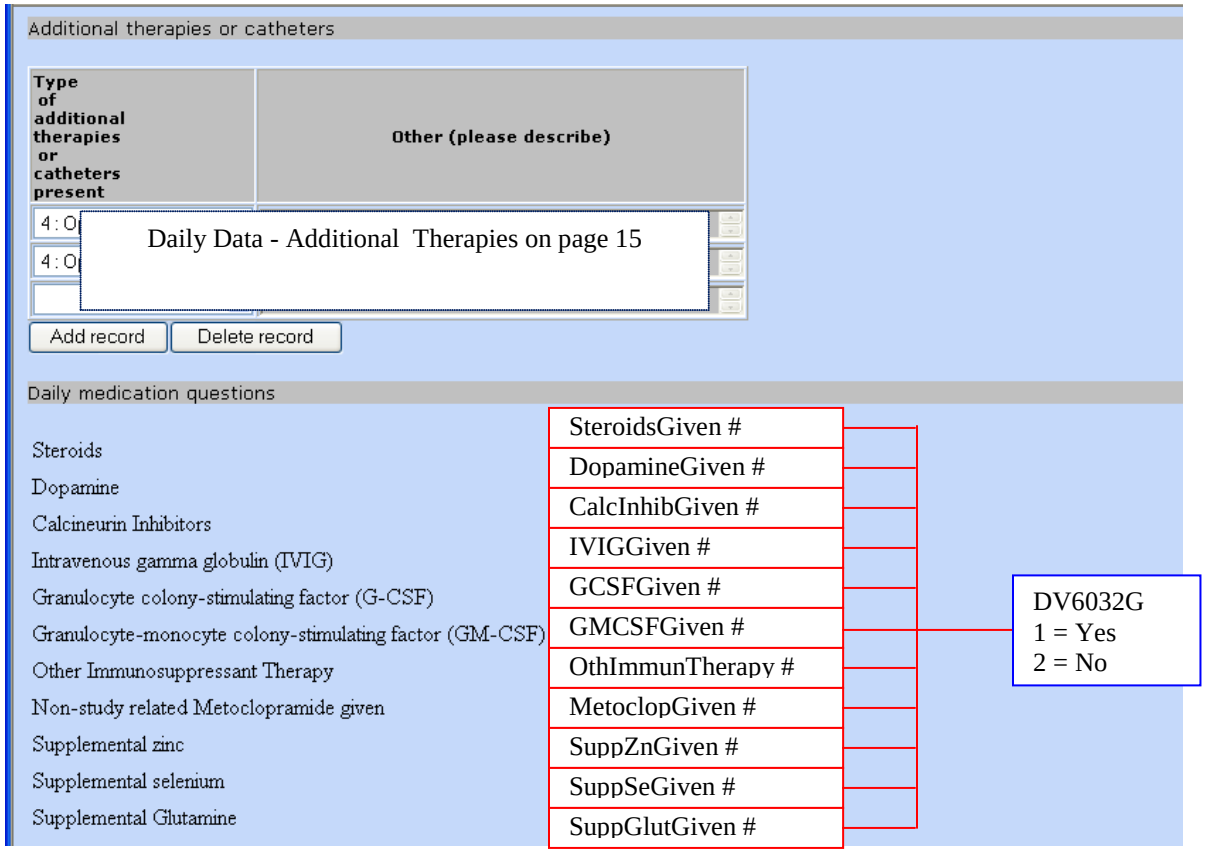
Unique ID = subjectID, studyForm

subjectID #

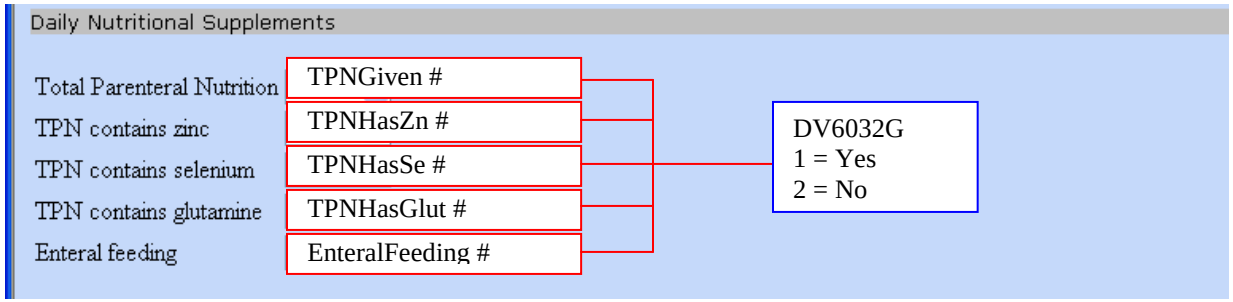
studyForm #



DAILYDATA (2 of 3)



DAILYDATA (3 of 3)

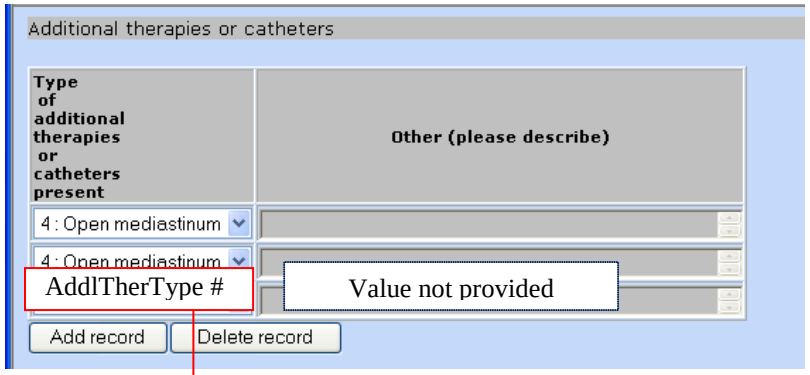


DAILYDATA_ADDITIONALTHERAPIES (1 of 1)

Daily Data – Additional Therapies

Unique ID = subjectID, studyForm, Repeat_instance

subjectID # | studyForm # | Repeat_instance #



DV661G
1 = Arterial catheter
2 = Tracheostomy
3 = Chest tube
4 = Open mediastinum
5 = ECMO
6 = Hemodialysis
7 = Peritoneal dialysis
8 = LVAD or BIVAD
9 = ICP monitor
10 = Epidural catheter
11 = None
12 = Other

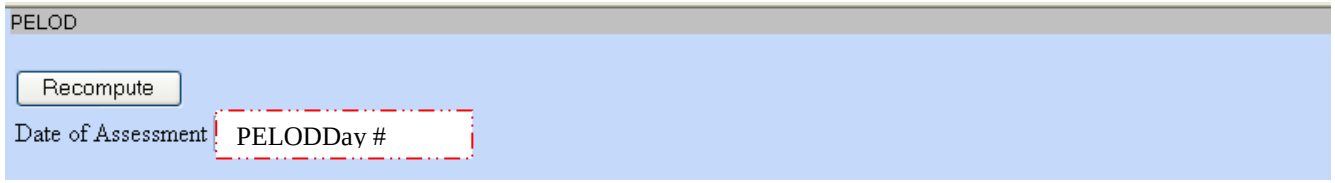
PELOD (1 of 1)

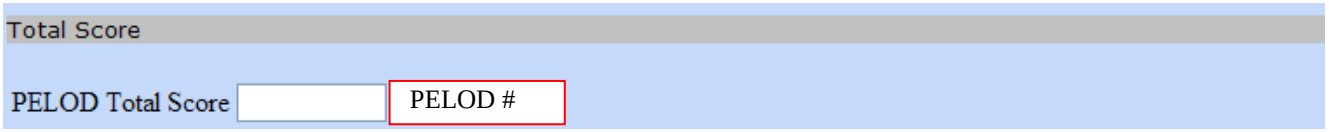
Pediatric Logistic Organ Dysfunction (PELOD) Score

Unique ID = subjectID, studyForm

subjectID # studyForm #

Note: Sites were instructed to collect PELOD scores on study day 1, 7, 14, 21 and 28 of PICU admission





OFI (1 of 1)

Organ Failure Index (OFI)

Unique ID = subjectID, studyForm

subjectID #

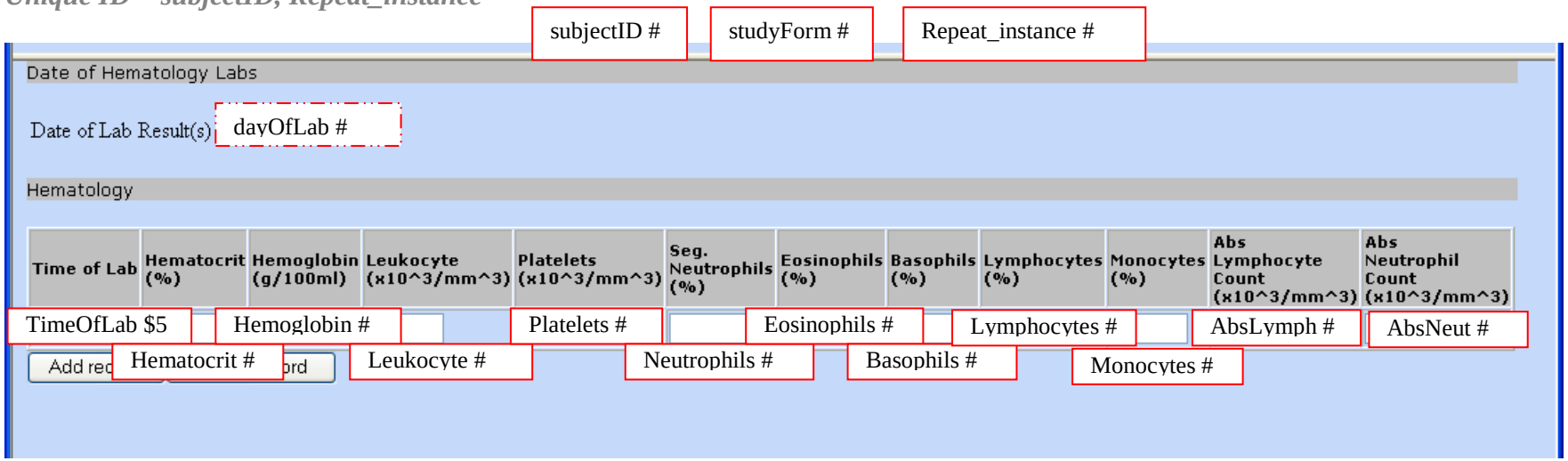
studyForm #

Note: Sites were instructed to collect OFI scores on study day 1, 7, 14, 21 and 28 of PICU admission

HEMATOLOGY (1of 1)

Daily Hematology Results

Unique ID = subjectID, Repeat_instance



SERUMCHEM (1of 1)

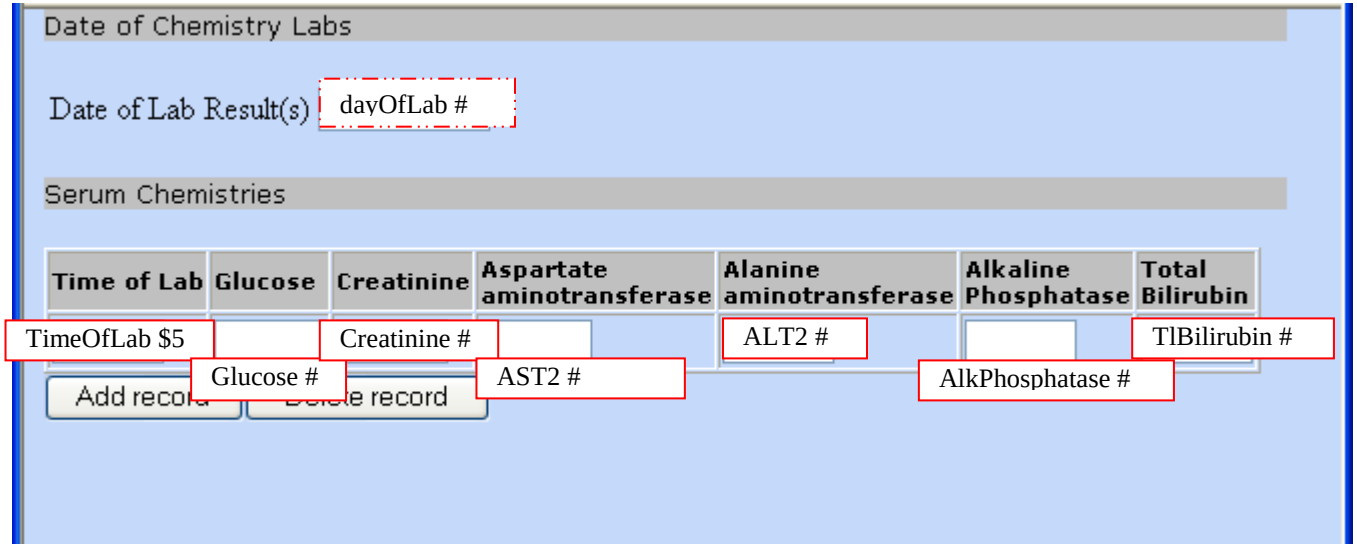
Daily Serum Chemistry Results

Unique ID = subjectID, Repeat_instance

subjectID #

studyForm #

Repeat_instance #

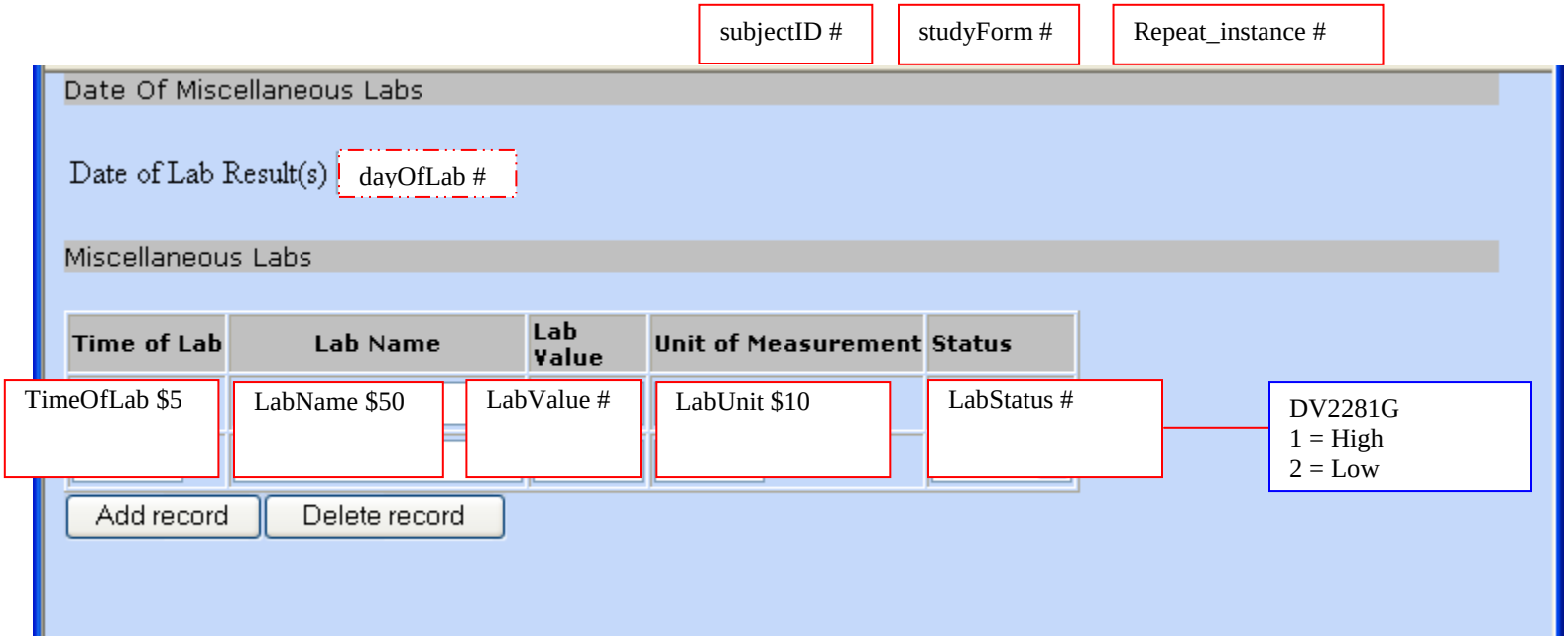


MISCLABS (1of 1)

Miscellaneous Laboratory Values

Unique ID = subjectID, Repeat_instance

Note: Sites were instructed to enter all other non-study required laboratory values where the investigator had determined the abnormal value was clinically significant.



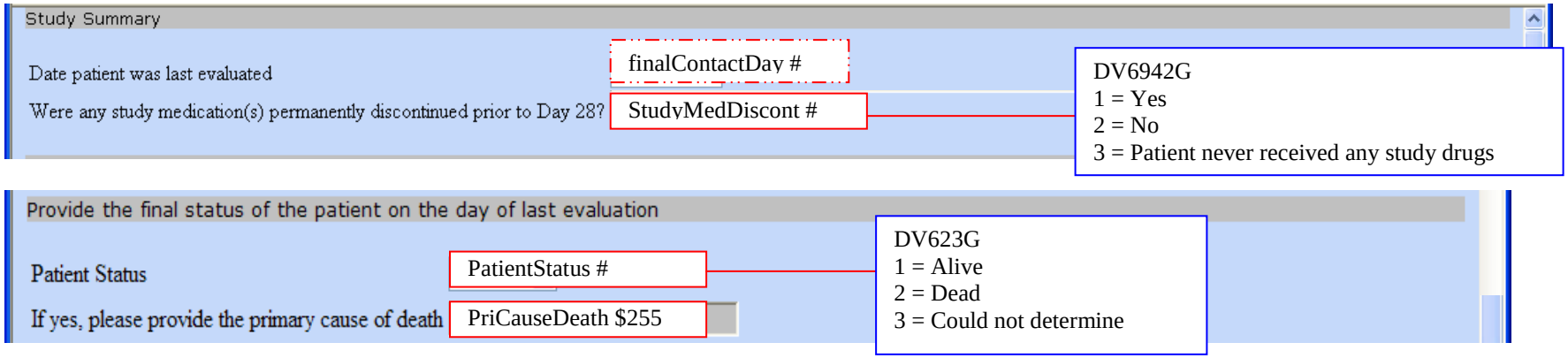
FINALSTATUS (1 of 2)

Final Status (includes Day 28 mortality information)

Unique ID = subjectID

subjectID #

studyForm #



FINALSTATUS (2 of 2)

Variables from analysis dataset included in the FINALSTATUS dataset:

Variable	Format	Type	Label	Algorithm / Notes
PICUDCTime	$5.	$	Time of PICU discharge (HHMM)	PICU discharge time for the current PICU admission OR death time if PICU discharge time was not provided
HospDCTime	$5.	$	Hospital discharge time (HHMM)	PICU discharge time for the current PICU admission OR death time if PICU discharge time was not provided
studyDay28Death	YESNOUK.	#	Dead on Study Day 28	= 1 if death date is on or before Study Day 28 = 0 if (death date is after Study Day 28) OR (patient is confirmed alive as of Study Day 28 AND NO death date is provided) = -1 if patient is NOT confirmed alive as of Study Day 28 AND patient withdrew from data collection prior to Study Day 28
PICUDCDay		#	Day of PICU discharge (relative to randomization)	(PICU discharge date for the current PICU admission OR death date if PICU discharge date was not provided) – randomization date
hospDCDay		#	Day of hospital discharge (relative to randomization)	(Hospital discharge date for the current hospital admission OR death date if hospital discharge date was not provided) – randomization date
studyDay28		#	Day of Study Day 28 (relative to randomization)	studyDay28: = (Date of Study Day 1 + 27) – randomization date
deathDay		#	Day of death (relative to randomization)	= (date of death, as of the final status evaluation OR Study Day 28 follow up) – randomization date
deathTime	$5.	$5	Time of Death (HHMM)	= time of death, as of the final status evaluation OR Study Day 28 follow up

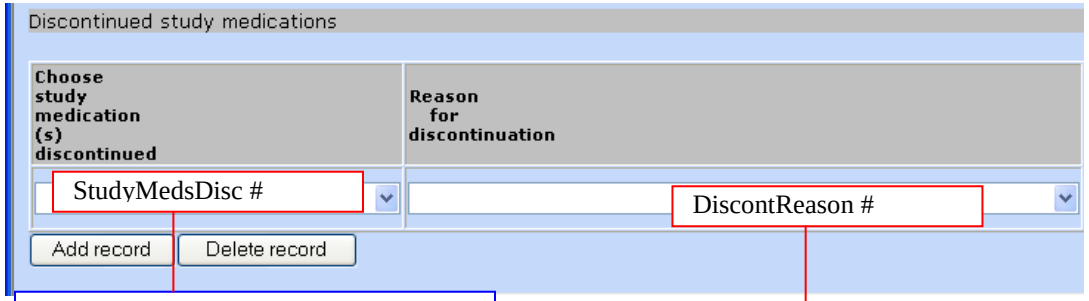
YESNOUK
-1 = Unknown
0 = No
1 = Yes

FINALSTATUS_STUDYMEDDISC (1of 1)

Final Status – Discontinued Study Medications

Unique ID = subjectID, Repeat_instance

subjectID # | studyForm # | Repeat_instance #



DV6627G
1 = Metoclopramide/Placebo
2 = Zinc/Placebo
3 = Selenium/Placebo
4 = Glutamine/Placebo
5 = All study medications discontinued

DV998G
1 = Adverse Event
2 = Failure to tolerate study medication
3 = Development of exclusion criteria
4 = Removal of enteral feeding tube
5 = No IV available
6 = Discharged from PICU
7 = Patient died
8 = Parent withdrew permission for patient to continue on study medication
9 = Other

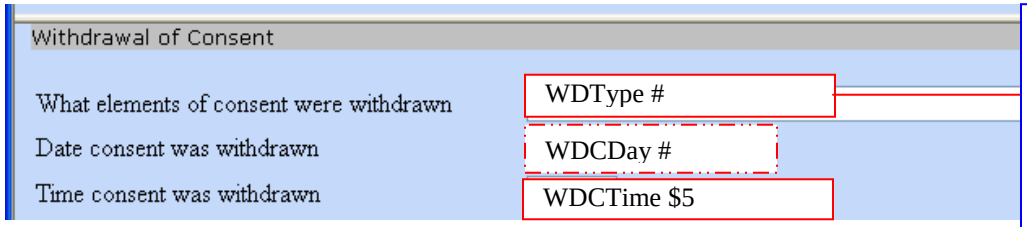
WITHDRAWALOFCONSENT (1 of 1)

Withdrawal of Consent

Unique ID = subjectID

subjectID #

studyForm #

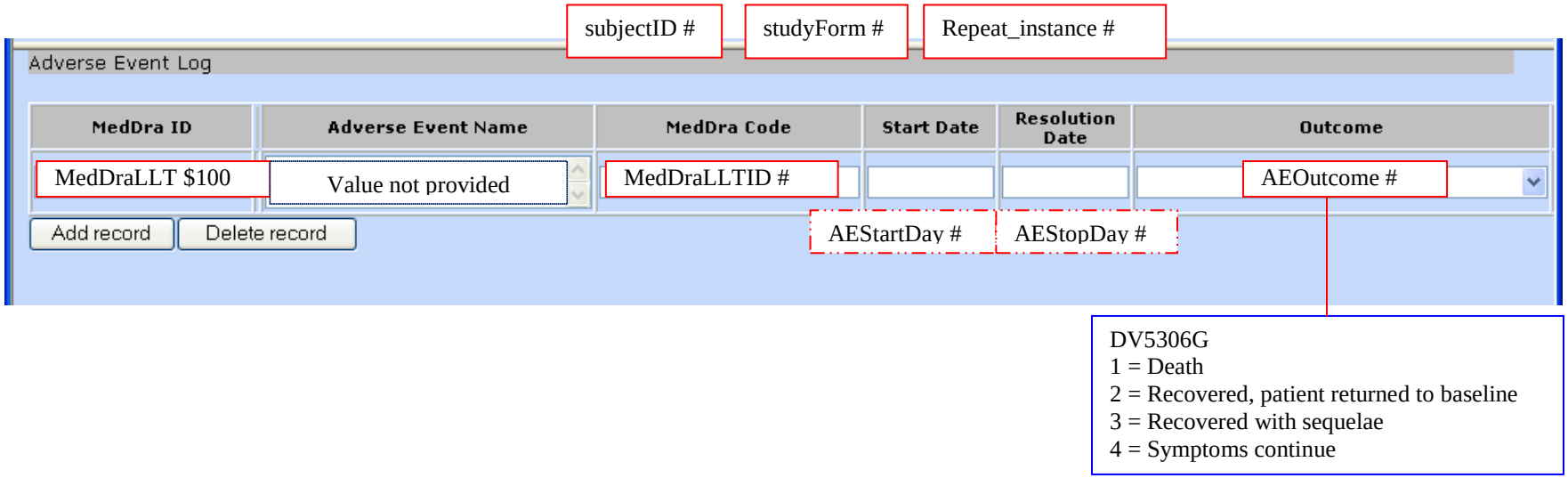


DV6943G
1 = Parent withdrew permission to continue on study medication, data collection can continue
2 = Parent withdrew permission for study medication and data collection to continue, except AEs and 28 Day follow-up
3 = Parent withdrew permission for study medication, data collection and any contact or follow-up

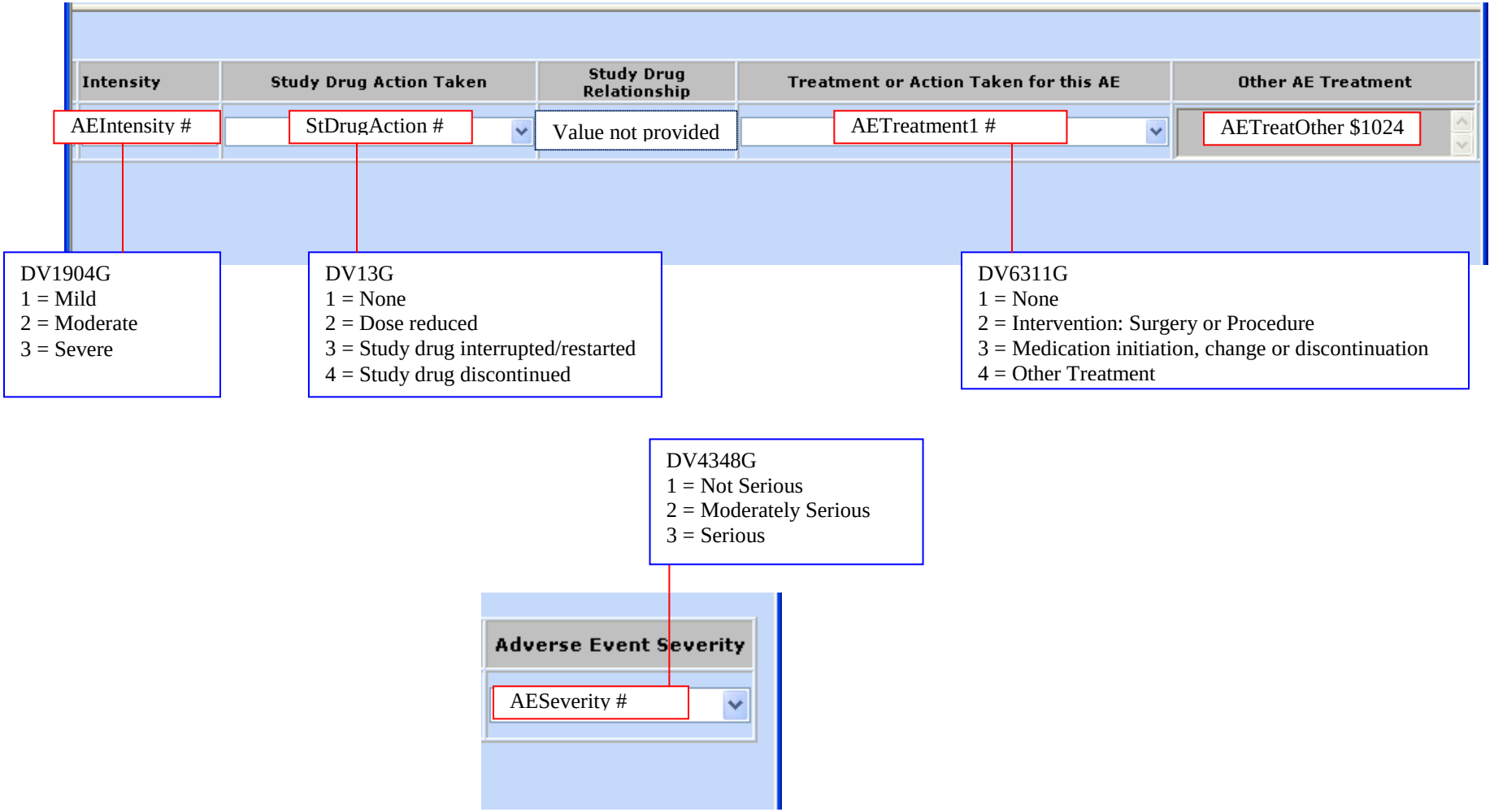
Adverse Events Log

Unique ID = subjectID, Repeat_instance

Note: Adverse events were coded to the lower level term (LLT) in MedDRA version 13.0. The lower level code (MedDRALLTID) and LLT (MEDRALLT) are included in this dataset. We are including sepsis and infection events in the dataset even though these event types were excluded from the summary of AEs provided for the primary manuscript since they overlap with the outcome reporting for this study.



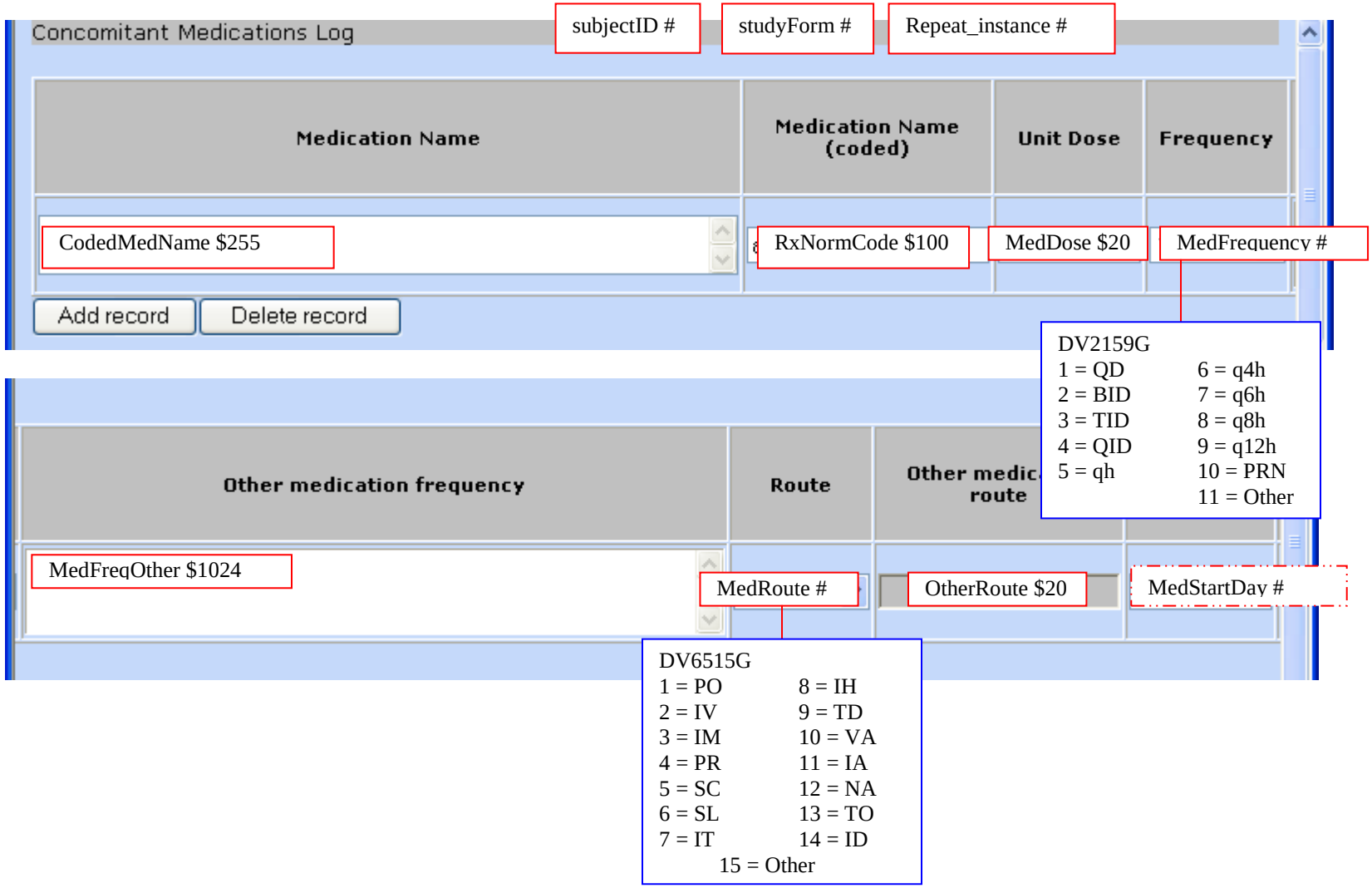
ADVERSEEVENTLOG (2 of 2)



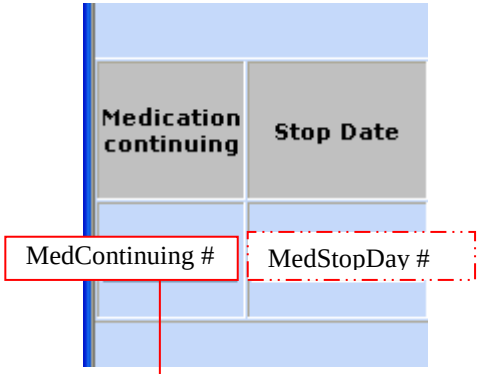
Concomitant Medications Log

Unique ID = subjectID, Repeat_instance

Note: Medications were coded in RxNorm version 2010.2.1, and the code (RxNormCode) and medication name (CodedMedName) are included in this dataset. 107 records have been removed from the dataset because they could not be coded.



CMEDLOG (2 of 2)

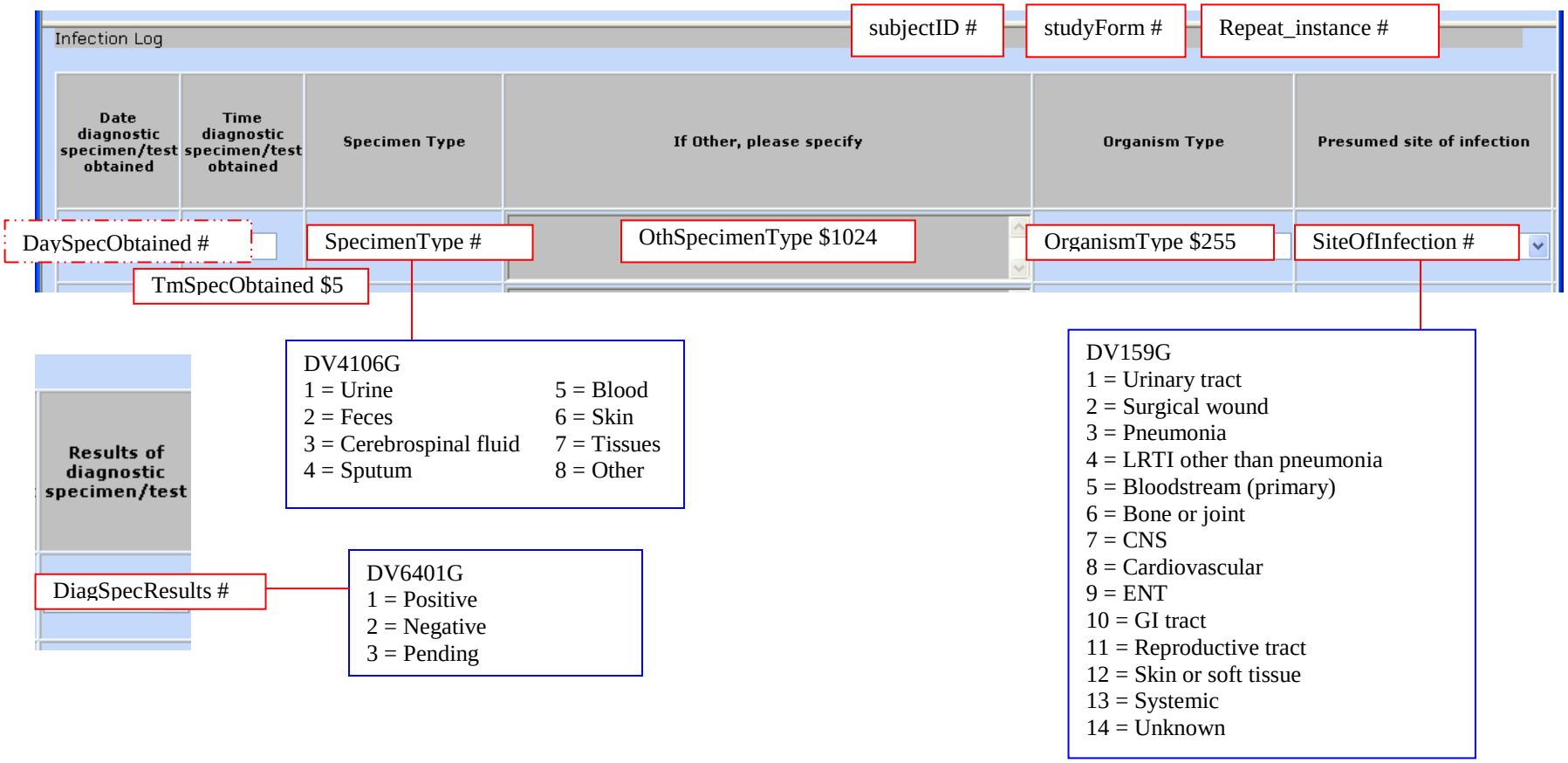


INFECTIONLOG (1 of 1)

Diagnostic Testing for Infections Log

Unique ID = subjectID, Repeat_instance

Note: Sites were instructed to enter all information regarding bacterial culture, antigen, PCR or antibody testing for an infection occurring within 48 hours prior to PICU admission through the last day the patient participated in the study.



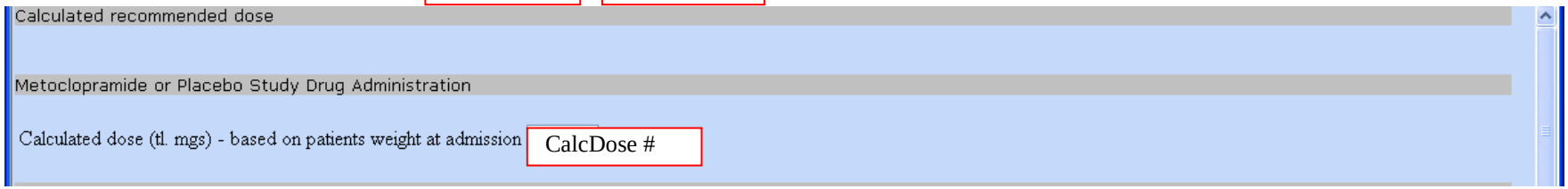
PARENTERALADMIN (1 of 1)

Parenteral Study Drug Administration

Unique ID = subjectID

subjectID #

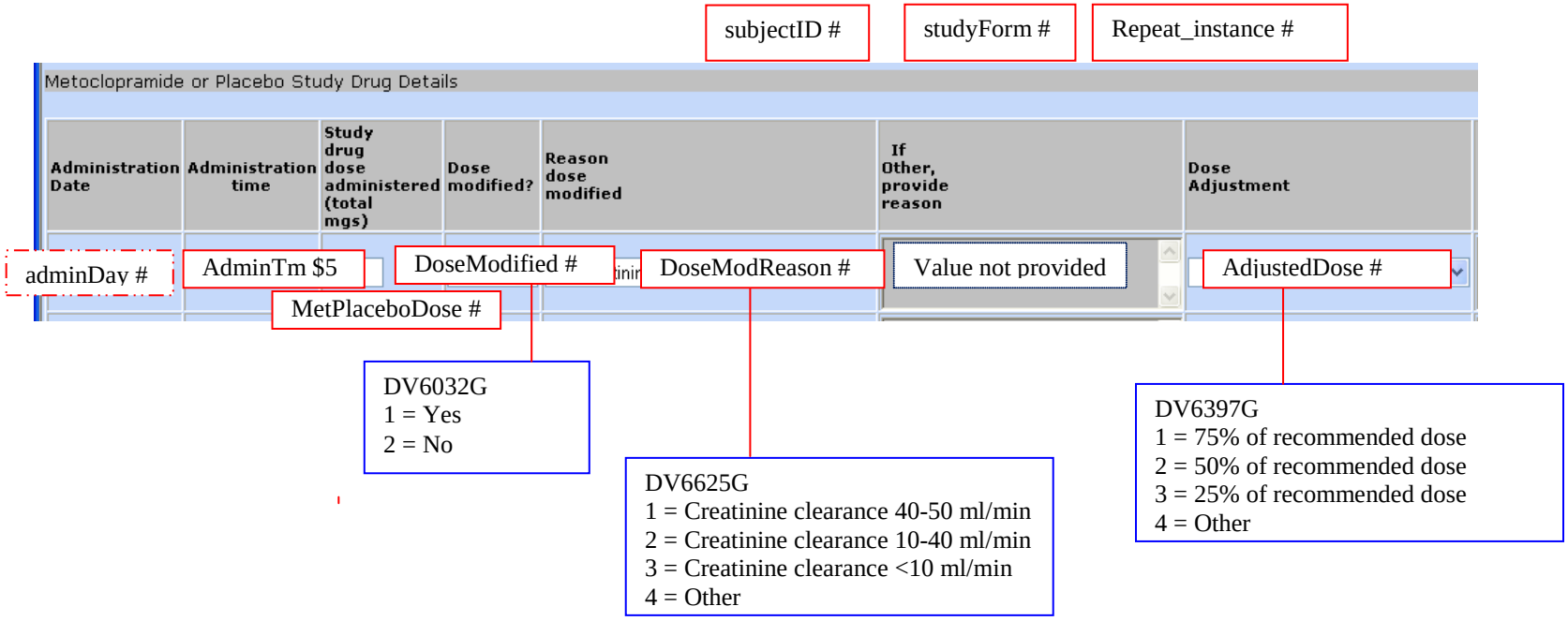
studyForm #



PARENTERALADMIN_METOCLOPRAMIDE (1 of 1)

Metoclopramide or Placebo Study Drug Administration Log

Unique ID = subjectID, Repeat_instance



Enteral Study Drug Administration

Unique ID = subjectID

subjectID # studyForm #

Calculated recommended dose

Zinc or Placebo Study Drug Administration

Calculated dose (tl. mgs) - based on patients age at admission CalcDose2 #

Calculated recommended dose

Selenium or Placebo study Drug Administration

Calculated dose (tl. mcgs) - based on patients age at admission CalcDose3 #

Calculated recommended dose

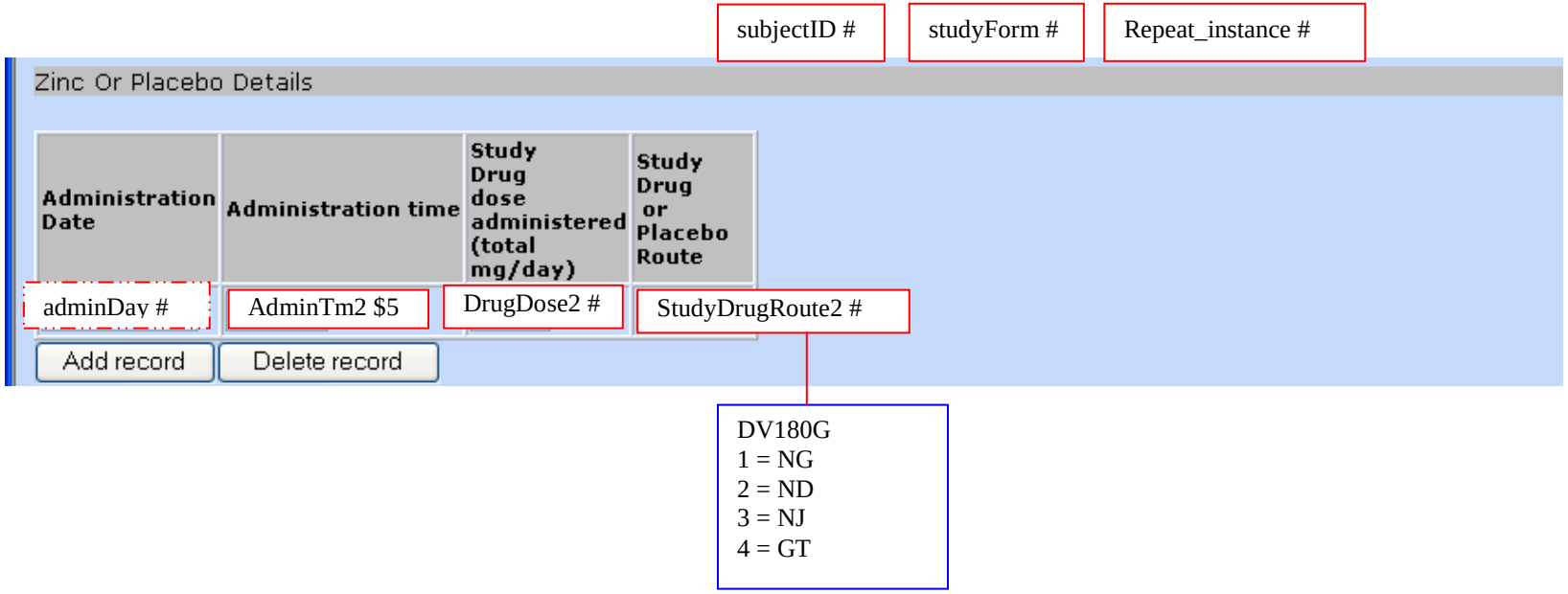
Glutamine or Placebo Study Drug Administration

Calculated dose (tl. gms) - based on patients weight at admission CalcDose4 #

ENTERALADMIN_ZINC (1 of 1)

Zinc or Placebo Study Drug Administration Log

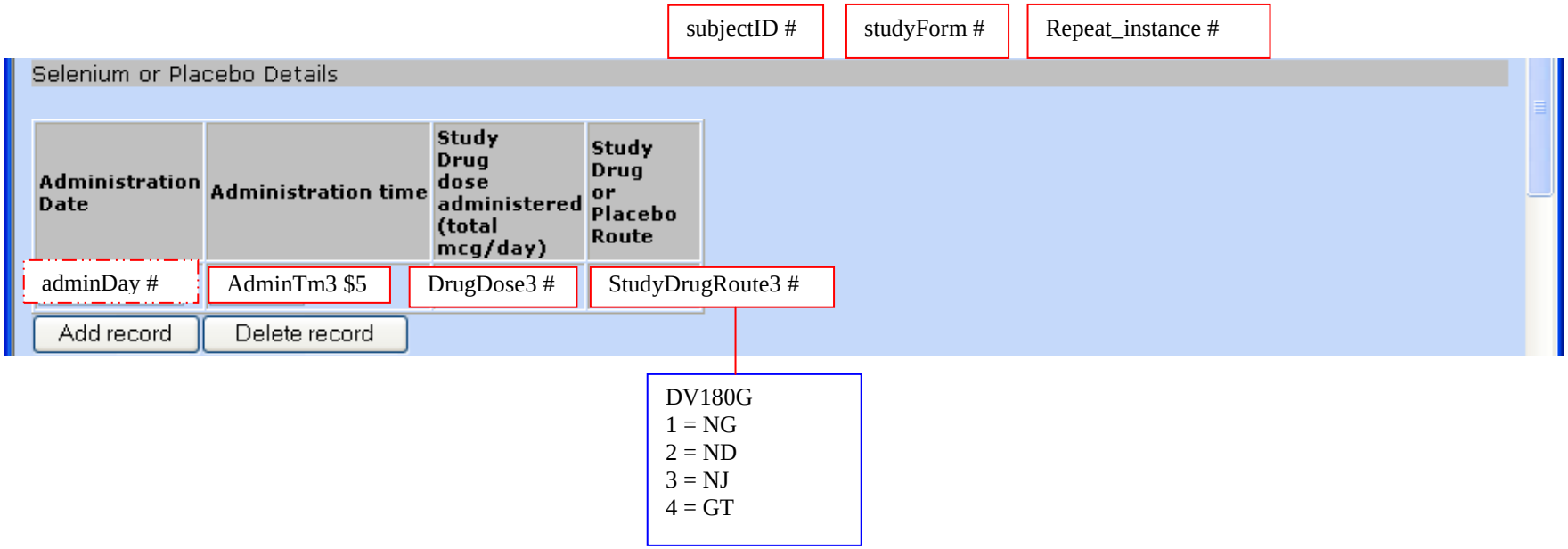
Unique ID = subjectID, Repeat_instance



ENTERALADMIN_SELENIUM (1 of 1)

Selenium or Placebo Study Drug Administration Log

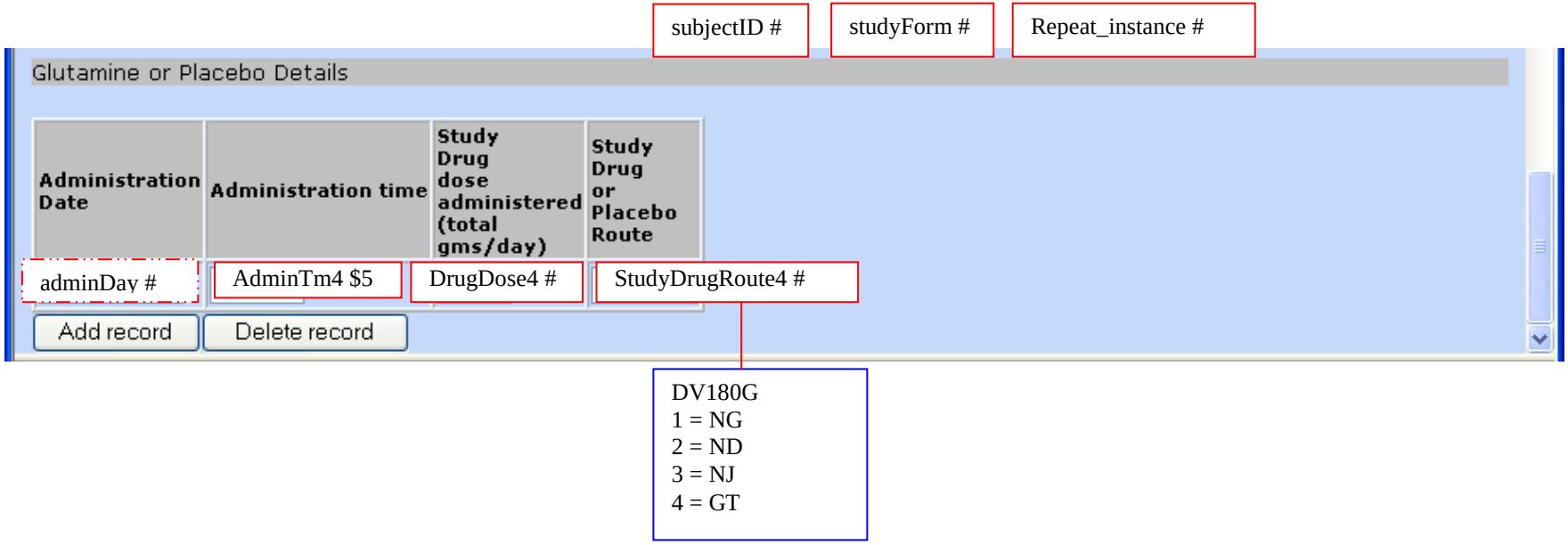
Unique ID = subjectID, Repeat_instance



ENTERALADMIN_GLUTAMINE (1 of 1)

Glutamine or Placebo Study Drug Administration Log

Unique ID = subjectID, Repeat_instance

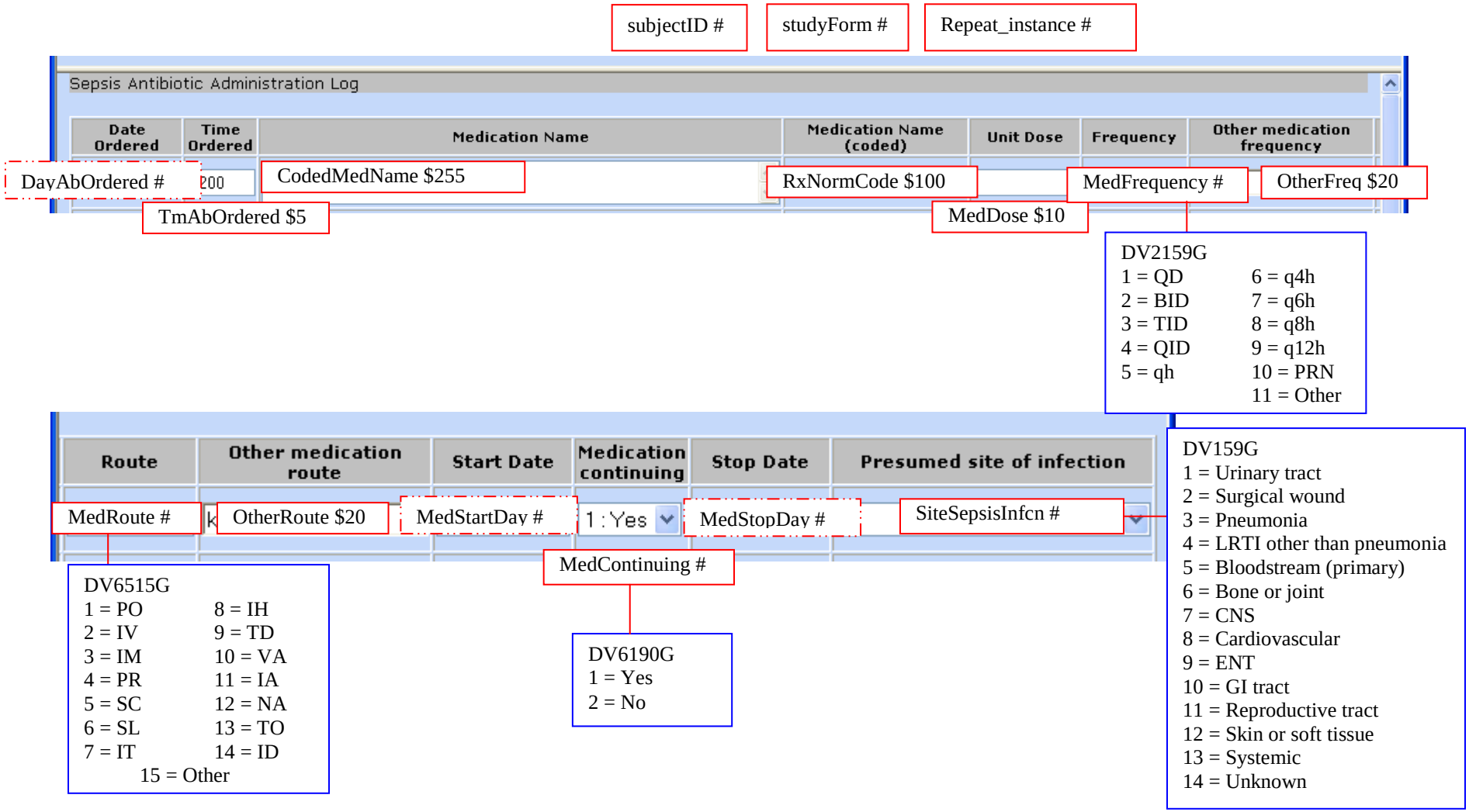


ANTIBIOTICLOG (1 of 1)

Antibiotic Log

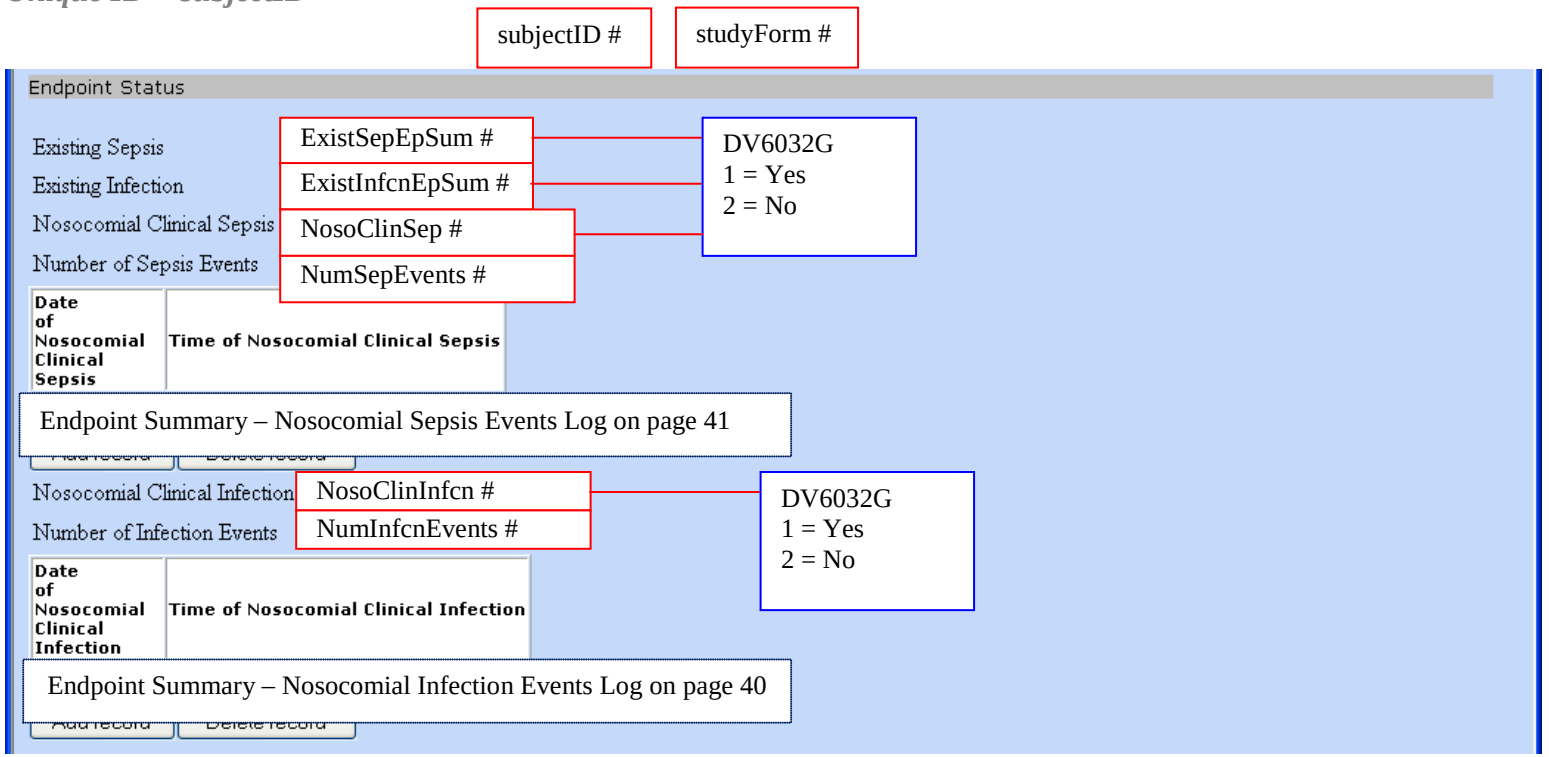
Unique ID = subjectID, Repeat_instance

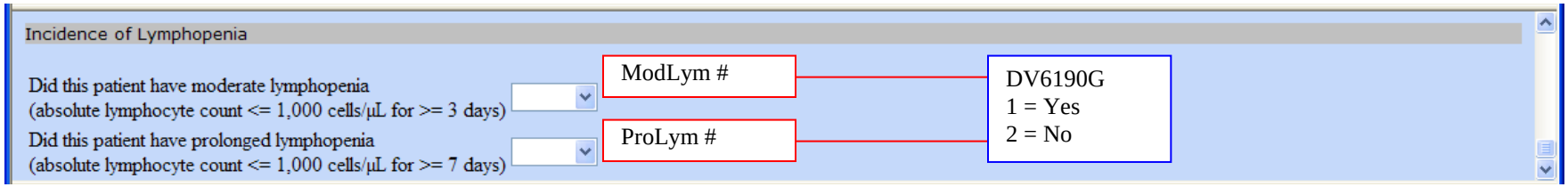
Note: Medications were coded in RxNorm version 2010.2.1, and the code (RxNormCode) and medication name (CodedMedName) are included in this dataset. One record has been removed from the dataset because it could not be coded.



Endpoint Summary

Unique ID = subjectID





Variables from analysis dataset include in the ENDPTSUM dataset:

Variable	Format	Type	Label	Algorithm / Notes
Time1stHrs		#	Time to first nosocomial infection/sepsis event/censor time (hours)	• If patient had any nosocomial sepsis/infection events then = Ceiling of [(date/time of earliest event – PICU admission date/time) / (60*60)] • Else if patient had no nosocomial sepsis/infection events AND did NOT withdraw from data collection then = Ceiling of {[minimum of (hospital discharge date/time, death date/time, 23:59 and 59 seconds on the day patient was last evaluated) – PICU admission date/time] / (60*60)} • Else if patient had no nosocomial sepsis/infection events AND withdrew from data collection then = Ceiling of [(date/time of withdrawal from data collection – PICU admission date/time) / (60*60)]
censor	YESNO.	#	Censored for survival analysis of time to first nosocomial infection/sepsis event	=1 if patient had any nosocomial sepsis/infection events =0 if patient had no any nosocomial sepsis/infection events
NumEvent		#	Number of nosocomial events (infection or sepsis)	=Number of nosocomial clinical sepsis events + number of nosocomial clinical infection events
AntiFreeDay		#	Antibiotic free days in PICU	= Number of days from PICU admission to earliest of PICU discharge, death, final study evaluation Note: for continuing antibiotics with missing antibiotic stop days, assume the antibiotic stop date is the earliest date of (PICU discharge, death, final study evaluation)
pctantifreeDAY		#	Proportion of antibiotic free days in PICU	antiFreeDay / PICUDay
PICUDAY		#	Days in PICU	=earliest of (PICU discharge date, death date, date patient was last evaluated) – PICU admission date + 1
studydayMOD		#	Time from PICU admission to final study evaluation (days)	• If patient did NOT withdraw from data collection then =Ceiling of {[minimum of (hospital discharge date/time, death date/time, 23:59 and 59 seconds on the day patient was last evaluated) – PICU admission date/time] / (60*60*24)} • Else if withdrew from data collection then =Ceiling of [(date/time of withdrawal from data collection – PICU admission date/time) / (60*60*24)]

ENDPTSUM (3 of 3)

EXISTINFSEPSG	SEPINF.	#	Existing Infection or Sepsis Subgroup	=0 if Existing Sepsis=No AND Existing Infection=No =1 if Existing Sepsis=Yes AND Existing Infection=No =2 if Existing Sepsis=No AND Existing Infection=Yes

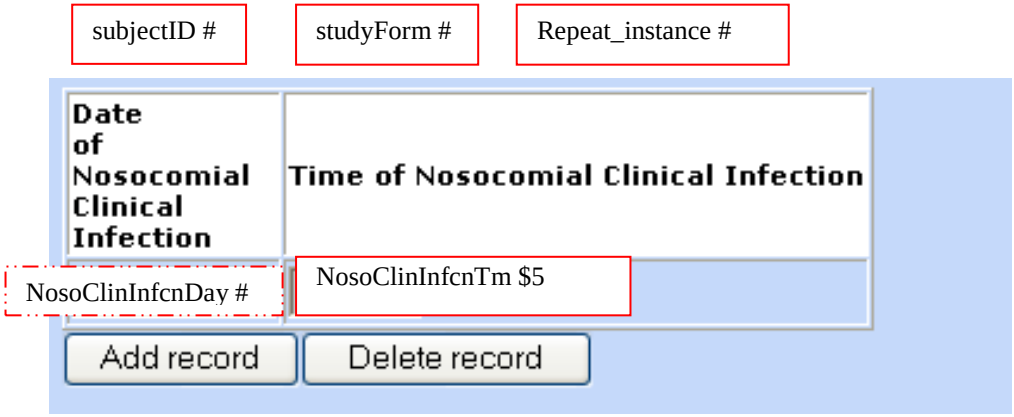
SEPINF
0 = No Pre-existing Sepsis/Infection
1 = Pre-existing Sepsis
2 = Pre-existing Infection
3 = Not Adjudicated

YESNO
0 = No
1 = Yes

Endpoint Summary – Nosocomial Infection Events Log

Unique ID = subjectID, Repeat_instance, organismID

Note: It is possible to have multiple organisms per infection; each organism is on a separate row.



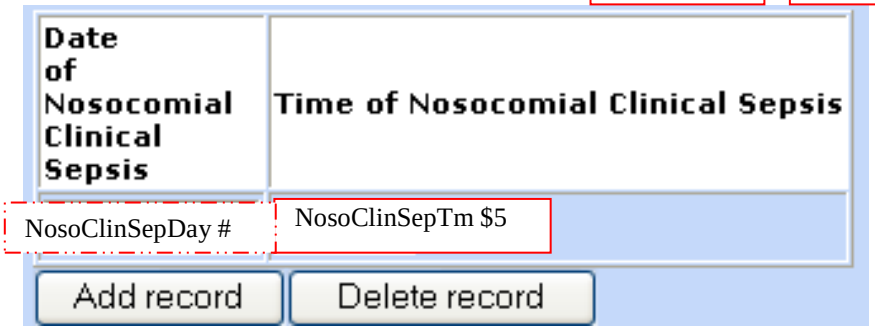
Variables from analysis dataset include in the ENDPTSUM_NOSOCLININFC dataset:

Variable	Format	Type	Label	Algorithm / Notes
organism		$96		Abstracted from the lab report
organism_category		$22		Categorized organism
specimen_location		$50		Abstracted from the lab report
specimen_type		$96		Categorized specimen location
organismID		#	Organism identifier (per infection)	

Endpoint Summary – Nosocomial Sepsis Events Log

Unique ID = subjectID, Repeat_instance

subjectID # studyForm # Repeat_instance #



MAYOLABS (1 of 1)

Mayo Laboratory Data

Unique ID = subjectID, studyForm, lab

Note: Sites were instructed to collected samples for Mayo Laboratory on Study Day 1 and Study Day 7/Early Exit.

subjectID # | studyForm #

Variables from Mayo laboratory dataset and Daily Data forms:

Variable	Format	Type	Label	Algorithm / Notes
lab	MAYOLABF.	#	Analyte	Provided by Mayo laboratory
labvc	$50.	$50	Lab Value	Provided by Mayo laboratory CANCELLED indicates specimen was hemolyzed, quantity not sufficient, specimen received at ambient temp, or interfering substance present in sample. Lab was unable to process.
LabDay		#	Lab Day (relative to randomization)	Sample date – randomization date
labtm	TIME5.	$5	Lab Time	Sample time

MAYOLABF
1 = Prolactin (ng/mL)
2 = Selenium (ng/mL)
3 = Zinc (mcg/mL)