

EMBED Data Submission - Data Format and SOP

V5. 2020.10.11

Technical Specifications

DATA SUBMISSION FREQUENCY: __once a month starting from ~two months after start of the study.

DATA INCLUDED IN EACH SUBMISSION:

A requirement of the data submission is to assure data remains de-identified. Of specific concern is the need to avoid dates of visits. To comply with this requirement, we will **not** request data with specific Visit Date cutoffs. Rather we will request data based on cutoffs of the days since **Site Randomization Date** (hereafter **SRD**). [NOTE: The SRD is randomly drawn within a 2-week window at each Healthcare System and is only known by the Healthcare System. It is used along with the Visit Date to determine the Day of Visit.]

1. For each healthcare system, once the SRD is set, the first data submission will include all encounters in the first 30 days of the study (0-30 days).
2. For all subsequent data submissions, each data set will contain encounter data for a total 60 days in which there is a 30 day overlap with the previous data submission. The overlap will allow us to catch any missing/updated data in the previous submission.
 - a. 1st data submission: encounters occurring in visit days 0-30
 - b. 2nd data submission: encounters occurring in visit days 0-60
 - c. 3rd data submission: encounters occurring in visit days 30-90
 - d. 4th data submission: encounters occurring in visit days 0-120
 - e. 5th data submission: encounters occurring in visit days 0-150
 - nth data submission: encounters occurring in visit days $30*(n-2) - 30*n$
3. The first data due date for all health care systems is approximately two months after the end of the SRD range. As we have started the trial,
the SRD range is 10/31-11/14/2019, the first data due date is on or before 01/15/2020.
4. The subsequent data due dates will be one month from the previous data due date. Using the above example, the subsequent data due dates will be **02/15/2020, 03/15/2020, 04/15/2020...**

DATA REQUIREMENTS

Changes that are new in this version are in red. Some updates have comments.

Data Quality Basics

1. Uniqueness of a patient's record is a combination of the following four fields and should be included in all submitted files except Fatalities and Demographics.
 - a. Site_ID (ID for a department in your healthcare system)
 - b. Each Patient has only one unique ID (Research_ID) – Hashed MRN
 - c. Arrival_DT – Days from trial start to date of ED visit arrival – NOT an actual arrival date in ED
 - d. Arrival_Hr – number of hours from midnight (local time) to the time of arrival in ED – NOT an actual arrival time in ED
2. A patient's identifier cannot be changed throughout the study

Upload File and Data Format Required:

1. One single .zip file that contains 19 data files in .txt format
2. The files correspond to the worksheet in the sample data excel spreadsheet.
3. The name of the zip file must be as follows: Embed_HealthcareSystemCode_yyyymmdd.

Healthcare System Code

Healthcare System	Code	Example
Yale	10	Embed_10_20200316.zip
University of North Carolina	20	Embed_20_20200316.zip
University of Alabama-Birmingham	30	Embed_30_20200316.zip
Colorado	40	Embed_40_20200316.zip
Baystate	50	Embed_50_20200316.zip

4. Pipe (“|”)-delimited text file (must have an extension “.txt”)
5. Naming convention for individual files:

The filenames are as follows:

Demographics.txt

ED_follow_up.txt

Care_teams.txt

ED_Dx.txt

Social_Hx.txt

PMH.txt

ED_CC.txt

ED_vitals.txt

Labs.txt

PTA_Meds.txt

ED_Meds_Rx.txt

ED_Meds.txt

Bup_Rx.txt

Bup_in_ED.txt

Naloxone_in_ED.txt

OUD_Phen_1_2.txt

Total_ED_Encounters.txt (new 4th column – described at the end of this file)

RID_Merge.txt

Daily_COVID_19.txt (new table – described at the end of this file)

~~Fatalities.txt (Exclude from the list)~~

To upload into Yale’s data validation tool, zip all the files (Embed_Siteld_yyyymmdd .zip) and upload.

6. The first row should contain the headers for the fields
7. Please do not include double quote, **nor “|”** in the text value
8. For missing and NULL values, use code -99999
9. Empty files should have respective column headers. **Rest of the file should be left empty.** A row of just ‘|’ pipes will also give an error message during validation.
10. Field order, format and example:

EHR DATA					
Order	Field Description	Header/Field Name	Data Type	Example	comments
Demographics.txt					
1	HealthcareSystemCode	Healthcare_System_ID	Number (Integer)	20	Will be based on 2 digit Healthcare System Code
2	Research ID	Research_ID	text	0x5710A983C8 8283F88A275F 69728F7273D4 277BFD	Hashed MRN
3	Age	Age_demo	Number (Integer)	25	18-85, if >85, then age=100; if age is missing then age=-99999
4	Gender	Gender	text	Male	Pls map the value to one of: Male/Female
5	Race	Race	text	White or Caucasian	White or Caucasian;Black or African American; American Indian or Alaska Native; Asian; Native Hawaiian or Other Pacific Islander; Other; Patient Refused; Unknown; Hispanic/Latino; Other/Not Listed; Native Hawaiian; Other Pacific Islander;
6	Ethnicity	Ethnicity	text	Hispanic or Latino	NON-HISPANIC; HISPANIC OR LATINO; UNKNOWN; PATIENT REFUSED;
ED_follow_up.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0x167C937CBF DD59106C827A EFB3E87ACF72 A65376	

3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	63	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	9	Make sure value falls between 0-24
5	Sequential number of ED Follow-up instruction	ED_FUP_LINE	Number (Integer)	2	
6	Identifier of provider doing ED follow up	ED_FUP_PROVIDER_ID	text	45846	
7	Follow-up practice Identifier	FUP_Practice_ID	Number (Integer)	104010037	
8	ED department ID for follow up	ED_FUP_DEPT_ID	Number (Integer)	101010001	
9	Follow-up contact address and telephone	ED_FUP_CONTACT	text	99 Example St xxxxx, Rhode Island 02891-2961 111-111-1111	
10	Summary of follow up instructions	ED_FUP_SUMMARY	text	Schedule an appointment as soon as possible for a visit in 1 day	
11	Patient instructions on how to contact Follow-up department	ED_FU_How	text	Make Appointment	
Care_teams.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xBF9608CB9C 896E2B546104 F3B64966C97C A28463	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	54	Make sure value falls between 0-700

4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	15	Make sure value falls between 0-24
5	Provider ID	Prov_ID	text	15849	
6	Clinician title (MD, MD PhD, PA, RN, APRN)	CLINICIAN_TITLE	text	MD	MD, MD PhD, PA, RN, APRN
7	Role within treatment team (nurse, resident, etc)	Team_relation	text	Physician Resident	
8	Attending provider ID (Remove)	BILL_ATTEND_PROVIDER_ID (Remove)	Text (Remove)	22495 (Remove)	Replace with 'Attending_Prov_ID'
8	Any attending physician associated with each encounter	Attending_Prov_ID	text	23145	If there are multiple clinical attendings during an encounter, list all.
9	Is the provider a resident?	IS_RESIDENT	Number (Integer)	1	1 = Yes, 2 = No
ED_Dx.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xD1CB013EFC 0168B18B5BB1 51E6359530E7 2A2B88	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	70	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	14	Make sure value falls between 0-24
5	ED Diagnosis code	ED_diagnosis_code	text	F10.929	
6	ED diagnosis description	ED_DX_name	text	Lower abdominal pain, unspecified	
Social_Hx.txt					

1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xDDAE11D15 D1AD4E19B826 47D71E3FA6B8 E8A7B28	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	70	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	14	Make sure value falls between 0-24
5	Illicit drug user at time of arrival in ED	ILL_DRUG_USER	Number (Integer)	1	Values: 1 = Yes 2 = No 3 = Not asked 4 = Defer
6	Frequency of drug use at time of arrival in ED	ILLICIT_DRUG_FREQ	Number (Integer)	2	removed
7	Current social history at time of arrival in ED	IV_DRUG_USER	Number (Integer)	1	1 = Yes, 2 = No
8	Days from trial start to Date Social history was entered	SHx_Contact_Dt	Number (Integer)	-23	
PMH.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xEBB544B880 F85783A97531 29E6346C4813 A43A4D	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	77	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	13	Make sure value falls between 0-24

5	PMH diagnosis code at time of arrival in ED	PMH_Diagnosis_Code	text	R11.2, Z98.890	
6	PMH diagnosis description at time of arrival in ED	PMH_DX_NAME	text	Aortic aneurysm (HC Code)	
7	PMH comments include OUD reference?	PMH_comments_OUD	Number (Integer)	1	1 = Yes, 2 = No
8	Days from trial start to PMH date of entry	PMH_contact_date	Number (Integer)	-2424	
ED_CC.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit Site ID
2	Research ID	Research_ID	text	0x1BF580017D D63D2CB2CF16 32F8EC334576 8D4A41	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	92	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	4	Make sure value falls between 0-24
5	ED chief complaint ID	ENC_REASON_ID	Number (Integer)	160302	
6	ED chief complaint description	ENC_reason_name	text	NECK PAIN	
7	Sequential number of chief complaints	ENC_reason_line	Number (Integer)	3	
ED_Vitals.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xA073AD3260 21AD9346B695 2899C7CF5B04 422D80	

3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	29	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	3	Make sure value falls between 0-24
5	ED BP systolic	BP_SYSTOLIC	Number (Integer)	145	Value falls between 56-225
6	ED BP diastolic	BP_DIASTOLIC	Number (Integer)	88	Value falls between 25-125
7	ED Pulse	PULSE	Number (Integer)	77	Value falls between 35-200
8	ED Respirations	RESPIRATIONS	Number (Integer)	18	Value falls between 0-35
9	ED Temperature	TEMPERATURE	Number (decimal)	97.2	Value falls between 91-105
Labs.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xB634A5CEFC 22115B7B15FA DD5BA08AD03 CC5A4CE	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	48	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	17	Make sure value falls between 0-24
5	Lab test name	Lab_COMMON_NAME	text	OXYCODONE SCREEN, URINE, NO CONF.	
6	Lab test result	Lab_Value	text	Negative	
7	Lab test comment	Lab_Comment	text	6-acetylmorphine is a heroin metabolite. While its absence (in the presence of	

				opiates) does not rule out heroin use, its presence is regarded as an indication of illicit heroin use. <10 ng/mL = Negative	
PTA_Meds.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0x9AB5D0199D FB7111D1D0C9 FB0B3CC84161 7A95BE	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	30	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	5	Make sure value falls between 0-24
5	Active medication name	PTA_Med_Name	text	OLANZAPINE 5 MG TABLET	
6	Active medication quantity taken	PTA_med_QUANTITY	text	10 tablet	
7	Active medication quantity taken - number	PTA_med_Quantity_Numb	Number (Decimal)	15.0	
8	Active medication quantity taken - type	PTA_med_Quantity_type	Text	tablet	
9	Active medication refills	PTA_med_REFILLS	Number (Integer)	2	
10	Days from trial start to Date the	PTA_med_ORDER_INST_DT	Number (Integer)	-1828	

	order was placed for the past med prior to arrival				
ED_Meds_Rx.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xDEC2C79DAC 2536DEA42871 1E762E211786 29961E	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	9	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	10	Make sure value falls between 0-24
5	Days from trial start to Date BUP was ordered in ED	ED_Rx_Ordering_dt	Number (Integer)	44	
5	Pharmacy class of medication prescribed	ED_Rx_order_class_name	text	Normal	
6	ED Rx medication name	ED_Rx_Name	text	MECLIZINE 25 MG TABLET	
7	ED Rx medication strength	ED_Rx_strength	text	500 mg	
8	ED Rx medication quantity prescribed	ED_Rx_QUANTITY	text	14 tablets	
9	ED Rx medication quantity prescribed - number	ED_Rx_Quant_Numb	Number (decimal)	.35	
10	ED Rx medication quantity	ED_Rx_Quant_Type	text	Tablet	

	prescribed – type				
11	ED Rx medication number of refills	ED_Rx_REFILLS	Number (Integer)	0	
12	Identifier of provider prescribing ED Rx medication	ED_Rx_PRESC_PROV_ID	text	5907	
13	Identifier of provider ordering ED Rx medication	ED_Rx_ORD_PROV_ID	text	66494	
Bup_Rx.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0x9E3E6DAB7E 71393FFF5EFC 2AB3DA841B8 904BEF8	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	12	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	17	Make sure value falls between 0-24
5	Days from trial start to Date BUP was prescribed in ED	BUP_Rx_Ordering_dt	Number (Integer)	12	
6	BUP Rx medication name	BUP_Rx_Description	text	BUPRENORPHINE 8 MG-NALOXONE 2 MG SUBLINGUAL FILM	
7	BUP RX Sig	BUP_Rx_sig	text	Place 4 tablets (8 mg total) under the tongue daily for 3 days	

8	BUP Rx medication strength	BUP_Rx_strength	text	8 mg	
9	BUP Rx medication quantity prescribed	BUP_Rx_QUANTITY	text	12 tablet	
10	BUP Rx medication quantity prescribed - number	BUP_Rx_QUANTITY_Numb	Number (Integer)	3	
11	BUP Rx medication quantity prescribed – type	BUP_Rx_Quantity_type	text	Each	
12	BUP Rx medication number of refills	BUP_Rx_REFILLS	Number (Integer)	0	
13	Identifier of provider Authorizing BUP Rx	BUP_Rx_AUTHORIZING_PROV_ID	text	13971	
14	Identifier of provider prescribing BUP Rx	BUP_Rx_ORDER_PROVID_ID	text	8097	
ED_meds.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0x613EA29E3B FF0ED7821D26 A7763A970729 BF87EE	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	70	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	14	Make sure value falls between 0-24

5	Sequential number of meds given in ED	ED_med_line	Number (Integer)	1	
6	Days from trial start to Date medication was ordered in ED	ED_med_Ordering_Dt	Number (Integer)	6	between Arrival_dt and Discharge_dt
7	Time medication was administered in ED	ED_Med_time	Number (Integer)	7	
8	Medication name ordered in ED	ED_Med_description	text	SODIUM CHLORIDE 0.9 % BOLUS (NEW BAG)	
9	ED Medication strength	ED_med_strength	text	60 MG	
10	Identifier of provider prescribing ED medication	ED_MED_PRESC_PROV_ID	text	56801	
11	Identifier of provider ordering ED medication	ED_med_ORD_PROV_ID	text	S0002135	
12	Action taken on the ED medication	ED_med_MAR_action	text	Given	
Bup_in_ED.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xD127D85E57 00019D4B031E 21AC7E2D4FBE A9B1EE	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	47	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	9	Make sure value falls between 0-24

5	Sequential number of BUP given in ED	ED_BUP_line	Number (Integer)	1	
6	Days from trial start to Date BUP was ordered in ED	ED_BUP_Ordering_Dt	Number (Integer)	36	
7	Time BUP medication was administered in ED	ED_BUP_time	Number (Integer)	4	
8	BUP Medication name ordered in ED	ED_BUP_Description	text	BUPRENORPHINE 2 MG-NALOXONE 0.5 MG SUBLINGUAL TABLET	
9	ED BUP Medication strength	ED_BUP_strength	text	8 MG	
10	Identifier of provider prescribing BUP medication in ED	ED_BUP_PRESC_PROV_ID	text	1632	
11	Identifier of provider ordering BUP medication in ED	ED_BUP_ORD_PROVIDER_ID	text	49725	
12	Action taken on the BUP medication in ED	ED_BUP_MAR_action	text	Given	
Naloxone_in_ED.txt					
1	Site ID	Site_ID	number	20	Will be based on 2 digit SiteID
2	Research ID	Research_ID	text	0xCFB04780A1 A61469255707 53755F71B177 A30969	

3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	86	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	8	Make sure value falls between 0-24
5	Sequential number of Naloxone given in ED	ED_Nal_line	Number (Integer)	1	
6	Days from trial start to Date Naloxone was ordered in ED	ED_Nal_Ordering_Dt	Number (Integer)	35	
7	Time Naloxone medication was administered in ED	ED_Nal_time	Number (Integer)	2	
8	Naloxone Medication name ordered in ED	ED_Nal_Description	text	NALOXONE 0.4 MG/ML INJECTION SOLUTION	
9	ED Naloxone Medication strength	ED_Nal_strength	text	0.4 mg/mL	
10	Identifier of provider prescribing Naloxone medication in ED	ED_Nal_PRESC_PROV_ID	text	13980	
11	Action taken on the Naloxone medication in ED	ED_Nal_MAR_action	text	ED Dispense ONLY	
ODU_Phen_1_2.txt					
1	ED site unique identifier	Site_ID	number	20	Will be based on 2 digit SiteID 11-55 or 90
2	Research_ID	Research_ID	text	0xCFB04780A1 A61469255707	

				53755F71B177 A30969	
3	Days from trial start to date of ED visit arrival	Arrival_DT	Number (Integer)	86	Make sure value falls between 0-700
4	Number of hours from midnight to the time of arrival	Arrival_Hr	Number (Integer)	8	Make sure value falls between 0-24
5	OUD Phenotype 1 or 2	OUD	text	Phen_1	Values: Phen_1 or Phen_2
6	Length of ED visit in minutes	Visit_len_Min	Number (Integer)	241	>0
7	Age_admission	Age_admission	Number (Integer)	29	18-85, if >85, then age=100; if age is missing then age=-99999
8	Chief Complaint -overdose, detox, withdrawal	CC	1=Yes, 2=No	1	1=Yes, 2=No
9	Chief Complaint - "heroin", "opiate", "opioid"	CC_Opioid	1=Yes, 2=No	1	1=Yes, 2=No
10	Chief Complaint -"narcan" or "naloxone"	CC_Narcan	1=Yes, 2=No	1	1=Yes, 2=No
11	Chief Complaint -"alcohol" or "ETOH"	CC_ETOH	1=Yes, 2=No	1	1=Yes, 2=No
12	Patient encounter diagnosis of all ICD-10 "F11" or one or more of ('T40.0', 'T40.1', 'T40.2', 'T40.3', 'T40.4', 'T40.5', 'T40.6')	OUD_Dx	1=Yes, 2=No	1	1=Yes, 2=No
13	Patients on pharm class and subclass - see note	On_CS_Med	1=Yes, 2=No	1	1=Yes, 2=No

14	Number of prescriptions within the past 90 days and >= 15 pills, >=75cc, or >=5 patch	CSMed_refills	Integer	1	
15	Narcan prescribed during the encounter where Generic name = 'naloxone HCl' and prescribed as an inpatient medication during the encounter	Narcan_Inpatient	1=Yes, 2=No	1	1=Yes, 2=No
16	Narcan prescribed as an outpatient prescription at the encounter (Generic name = 'naloxone HCl')	Narcan_Outpatient	1=Yes, 2=No	1	1=Yes, 2=No
17	Patients who were prescribed Narcan within the past 24 months (Generic name = 'naloxone HCl')	Narcan24Mo	1=Yes, 2=No	1	1=Yes, 2=No
18	OUD diagnosis on Problem List	PL_OUD_Dx	1=Yes, 2=No	1	1=Yes, 2=No
19	Days from Trial start to Date OUD diagnosis info was entered on PL	PL_OUD_DX_DT	Number (Integer)	-774	difference between Study Start Date and Date OUD diagnosis info was entered on PL
20	Past medical history of specific dx - see note	PMH	1=Yes, 2=No	2	

21	Epic discrete data IV_DRUG_USER_YN = Y entered on or prior to the encounter	Ill_Drug	1=Yes, 2=No	2	
22	Patient discharge instructions with one of patient instruction title (see below)	DC_inst	1=Yes, 2=No	2	
23	Urine drug screen positive for opiates (yes/no)	Opiate_Labs	1=Yes, 2=No	2	lab results value that contains word positive and value or comment contains words – opioid, opiate, fentanyl, heroin, hydrocodone, hydromorphone, morphine, opium, oxycodone
24	Urine drug screen positive for oxycodone (yes/no)	Oxycodone_lab	1=Yes, 2=No	2	
25	Insurance Info	Fin_class	text	Medicaid	Medicaid, Medicare, Self-Pay, Specific insurance, etc
26	Total ED visits prior to this visit since start of the study	Total_ED_visits	Number (Integer)	3	
27	Days from trial start to Date of last inpatient admission	Last_Inp_Adm_DT	Number (Integer)	33	
28	Days from trial start to Date of last psychiatric inpatient admission	Last_Psy_Adm_DT	Number (Integer)	5	
29	Presence of ETOH dx	ETOH_Dx	1=Yes, 2=No	1	
30	Presence of "benzo" dx	Benzo_Dx	1=Yes, 2=No	2	

31	Is patient currently on MOUD	MOUD	1=Yes, 2=No	2	
32	Problem list states that patient is treated with BUP or Suboxone or Methadone or Naloxone	PL_MOUD	1=Yes, 2=No	2	
33	Days from trial start to Date OUD_Tx was entered on problem list	PL_MOUD_DT	Number (Integer)	-728	
34	Patient left without being seen	LWBS	1=Yes, 2=No	2	
35	Patient is pregnant	Pregnant	1=Yes, 2=No	2	
36	Whether or not the EMBED app was launched by the provider or not	Intervention	1=Yes, 2=No	2	
37	This metric is to measure which CarePathway option was chosen	Path_ID	Number Options 1 -7	3	If the provider abandons the process or never accesses the intervention, then this measure will be -99999
38	The clinical attending of record	Attending_Of_Record_Prov_ID	text	23145	If there were multiple attending during the encounter, this is the clinical attending of record for the encounter. In the Yale system, this is the first clinical attending, but this could vary in other systems based on their local practice patterns

Total_ED_Encounters					
1	Department ID	Site_ID	Number (Integer)	13	11-55 or 90
2	Days from trial start to the date	The_Day	Number (Integer)	78	
3	Total ED encounters for that day	Num_Of_Encounters	Number (Integer)	8	
4	Total ED encounters for that day	Num_Of_Admissions	Number (Integer)	8	
RID_Merge					
1	Healthcare_System_ID	Healthcare_System_ID	Number Integer	10	10,20,30,40 or 50
2	Research ID of the merged subject from the previous submission	Old_Research_ID	text	0x5710A983C88283F88A275F69728F7273D4277BFD	Hashed MRN
3	The Research ID that is newly assigned to the subject	New_Research_ID	text	0x5710A983C88283F88A275F69728F7273D4279FBA	Hashed MRN
Daily_COVID_19					
1	Department ID	Site_ID	Number (Integer)	13	11-55 or 90
2	Days from trial start to the date	The_Day	Number (Integer)	78	
1	Count of COVID_19 +ve inpatient admissions	Admission_Ct	Number Integer	12	
2	Count of COVID_19 +ve inpatient deaths	Death_Ct	Number Integer	2	
3	Count of COVID_19 +ve inpatient discharge	Discharge_Ct	Number Integer	5	

Fatalities.txt (Excluded from the list)					
1	Department ID	Site_ID	number	13	11-55 or 90
2	Total patients in the files	Total_Pt	number	9150	
3	Total visits in the files	Total_visit	number	17294	
4	Total Phenotype 1	Phen1	number	18	
5	Total Phenotype 2	Phen2	number	6	
6	Total Deaths	Death	number	1	

DATA SUBMISSION (for sites)

1. The format and data-type is being provided to each Site
2. The online data validation tool will accept only zipped files with .zip extension. This zipped folder should contain 19 text files with extension .txt. For filename and file format specs refer to **Upload File and Data Format Required** section.
3. If a field does not have a value (NULL), populate with -99999. Please **DO NOT** remove any headers.

Two new tables will be added to Version 4 of EMBED Data Submission Specification

(1) Total_ED_Encounters

- To track the total volume of the ED patient flow. This is not related to Phen 1 & 2. Just the total number of patients coming in through the ED doors. We are not looking for individual patient identity.
- This new table which will be part of next submission will record daily total ED encounters. The table should contain **Site_Id**, **The_Day** (the day from trial start) and **Num_Of_Encounters**. A separate query is needed to generate the data for this table.

Total_ED_Encounters

Site_Id	The_Day	Num_Of_Encounters

- Pipe '|' de-limited .txt file - Total_ED_Encounters.txt

(2) RID_MERGE

Record merge for patients that have more than one research IDs

- We are adding a new table **RID_Merge** to record all the research IDs that need to be merged. It should contain **Healthcare_System_ID**, **Old_Research_ID** that maps to a new research ID, and the **New_Research_ID**.

RID_Merge

Healthcare_System_ID	Old_Research_ID	New_Research_ID

- Each site needs to include the additional table (may be empty in most cases) to report the records that need to be merged. This table won't be part of data extraction from EHR. Must be built manually.
- **RID_Merge** table submitted with each submission should contain the mappings for the Research_Id merges for that submission.
- If a to-be-merged research ID is missing in RID_MERGE table, there will be extra patient record(s) in potentially all the tables for an existing patient.
- Pipe '|' de-limited .txt file - RID_Merge.txt

EMBED Version 5 Updates

- (3) One additional column in **Total_ED_Encounters**
- (4) One new table **Daily_COVID_19**

- (1) **Column 'Num. Of Admits'** – Total admissions from ED for that day. This is the 4th column in table **Total_ED_Encounters**.

Total_ED_Encounters

Site_Id	The_Day	Num_Of_Encounters	Num_Of_Admits

(2) Daily_COVID_19

To track COVID_19 admissions. The table will record daily COVID_19 admission, discharge, and death.

- Here admission includes both admits and observation admissions by CMS criteria.

- We are not looking for individual patient identity.
- COVID positive admission implies a positive COVID test 14 days before until 3 days after the admission date.
- This new table will be part of Submission 11 due November 15th. The table should contain

- **Site_Id** (the 2-digit Id)
- **The_Day** = The day from trial start
- **Admission_Ct** = Count of COVID_19 +ve inpatient admissions
- **Death_Ct** = Count of COVID_19 +ve inpatient deaths
- **Discharge_Ct** = Count of COVID_19 +ve inpatient discharge

A separate query is needed to generate the data for this table.

Daily_COVID_19

Site_Id	The_Day	Admission_Ct	Death_Ct	Discharge_Ct

- Pipe '|' de-limited .txt file – Daily_COVID_19.txt