

Project Details	
Name	Opioids in ICU
Organisation(s)	UHS

Versioning	
Version	v1
Version Notes	1656 patients, 2019-2024

Cohort	
Inclusion Criteria	<ul style="list-style-type: none"> * ICU admissions between 2019 & 2023 * >= 18 at time of admission * use of invasive mechanical ventilation
Exclusion Criteria	<ul style="list-style-type: none"> * Patients with a National Data Opt Out (NDOO) * Patients with <= 24 hours in ICU

Metadata	
Template Version	v1.1
Tables	9
Columns	63
Issues	None

Table	Description	CHECKS
SPELLS	Unique patient ICU admissions, and demographics during admission	OK
MEDICATIONS	Opioids ordered in JAC during admission	OK
DIAGNOSES	Diagnoses and procedures recorded against ICU admission	OK
PMH	Previous medical history (diagnoses and procedures)	OK
START_OBSERVATIONS	Vitals over first 24 hours of ICU admission	OK
OBSERVATIONS	Daily vitals during ICU admission	OK
PAIN	Pain recorded during ICU admission	OK
DRUGS	Summary table of daily drugs & doses	OK
EVENTS	Intubation, Extubation, and Tracheostomy events	OK

Table	Column	Order	Data Type	Length	Vocabularies	Enumerations	Primary Key	Foreign Key Target	Column Description	CHECKS
SPELLS	STUDY_ID	1	Text	64			1		Pseudonymised patient identifier	OK
SPELLS	ICU_SPELL_ID	2	Integer				2		Unique spell ID	OK
SPELLS	ADMISSION_DATE	3	Timestamp						Date of overall spell admission	OK
SPELLS	DISCHARGE_DATE	4	Timestamp						Date of overall spell discharge	OK
SPELLS	UNIT_IN_TIME	5	Timestamp						Datetime of ICU admission	OK
SPELLS	UNIT_OUT_TIME	6	Timestamp						Datetime of ICU discharge	OK
SPELLS	ICU_TYPE	7	Text	22					ICU type	OK
SPELLS	AGE	8	Integer						Age at admission	OK
SPELLS	GENDER	9	Text	6					Gender	OK
SPELLS	WEIGHT	10	Float						Weight at admission	OK
SPELLS	COVIDPOSITIVE_FLAG	11	Text	1					COVID during admission	OK
SPELLS	OPERATION_FLAG	12	Text	1					Operation during admission	OK
SPELLS	HOSPITAL_DEATH	13	Text	1					Death during admission	OK
SPELLS	DATE_OF_DEATH	14	Date						Date of death, if in admission	OK
MEDICATIONS	STUDY_ID	1	Text	64			1	SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
MEDICATIONS	ICU_SPELL_ID	2	Integer				2	SPELLS.ICU_SPELL_ID	Unique spell ID	OK
MEDICATIONS	ORDER_NO	5	Integer				3		Unique drug order number within spell	OK
MEDICATIONS	DRUGNAME	6	Text	60					JAC drug name	OK
MEDICATIONS	DMDNAME	7	Text	64					Full DMD name	OK
MEDICATIONS	ORDER_TYPE	8	Text	10					Order type (inpatient or to take away)	OK
MEDICATIONS	PRESCRIPTION_START_DATETIME	9	Timestamp						Prescribing start	OK
MEDICATIONS	PRESCRIPTION_STOP_DATETIME	10	Timestamp						Prescribing stop	OK
MEDICATIONS	STAT	11	Text	1					To be given STAT - immediately	OK
MEDICATIONS	PRN	12	Text	1					To be given PRN - as occasion arises	OK
MEDICATIONS	SELECTED_FOR_TTA	13	Text	1					To be continued following discharge	OK
DIAGNOSES	STUDY_ID	1	Text	64			1	SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
DIAGNOSES	ICU_SPELL_ID	2	Integer				2	SPELLS.ICU_SPELL_ID	Unique spell ID	OK
DIAGNOSES	ICU_DIAGNOSIS_NO	3	Integer				3		Unique diagnosis number within spell	OK
DIAGNOSES	DIAGNOSIS_DATE	4	Date						Date of diagnosis	OK
DIAGNOSES	DIAGNOSIS_TYPE	5	Text	1					Diagnosis or procedure	OK
DIAGNOSES	DIAGNOSIS_CODE	6	Text	6					Diagnosis code	OK
DIAGNOSES	DIAGNOSIS_DESCRIPTION	7	Text	435					Diagnosis name	OK
PMH	STUDY_ID	1	Text	64			1	SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
PMH	ICU_SPELL_ID	2	Integer				2	SPELLS.ICU_SPELL_ID	Unique spell ID	OK
PMH	ICU_PMH_NO	3	Integer				3		Unique PMH number within spell	OK
PMH	DIAGNOSIS_DATE	4	Date						Diagnosis date	OK
PMH	DIAGNOSIS_TYPE	5	Text	1		Y			Diagnosis or procedure	OK
PMH	DIAGNOSIS_CODE	6	Text	6					Diagnosis code	OK
PMH	DIAGNOSIS_DESCRIPTION	7	Text	194					Diagnosis name	OK
START_OBSERVATIONS	STUDY_ID	1	Text	64			1	SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
START_OBSERVATIONS	ICU_SPELL_ID	2	Integer				2	SPELLS.ICU_SPELL_ID	Unique spell ID	OK
START_OBSERVATIONS	LOWEST_START_PLATELETS	3	Integer						Lowest platelets - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	LOWEST_START_GCS	4	Integer						Lowest Glasgow Coma Scale - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	LOWEST_START_PO2	5	Float						Lowest PO2 - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	LOWEST_START_FIO2	6	Integer						Lowest FIO2 - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	LOWEST_START_PF_RATIO	7	Float						Lowest PF Ratio - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	HIGHEST_START_BILI_PLATELETS	8	Integer						Highest Bili Platelets - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	LOWEST_START_MAP	9	Float						Lowest MAP - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	NORA_DOBU_DOPA_ADREN_Y_N	10	Text	1					Administration of norapinephrine, dobutamine, domapine, adreneline - Over first 24 hours of ICU admission	OK
START_OBSERVATIONS	URINE_OUTPUT_ML_DAY	11	Integer						Urine Output ML per day - Over first 24 hours of ICU admission	OK
OBSERVATIONS	STUDY_ID	1	Text	64			1	SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
OBSERVATIONS	ICU_SPELL_ID	2	Integer				2	SPELLS.ICU_SPELL_ID	Unique spell ID	OK

OBSERVATIONS	DATE_RECORDED	3	Date	3	Observation Date	OK	
OBSERVATIONS	INVASIVE_MECHANICAL_VENT	4	Text	3	Invasive Mechanical Ventilation - During given day	OK	
OBSERVATIONS	NON_INVASIVE_MECHANICAL_VENT	5	Text	3	Non-Invasive mechanical ventilation - During given day	OK	
OBSERVATIONS	DRUG_USAGE	6	Text	3	Drug usage - During given day	OK	
OBSERVATIONS	HIGHEST_CPOT_SELF_VENT_SCORE	7	Integer		Highest CPOT self ventilation score - During given day	OK	
OBSERVATIONS	HIGHEST_AIRWAY_INSITU_SCORE	8	Integer		Highest Airway insitu score - During given day	OK	
OBSERVATIONS	LOWEST_PO2	9	Float		Lowest PO2 -During given day	OK	
OBSERVATIONS	LOWEST_FIO2	10	Float		Lowest FIO2 - During given day	OK	
OBSERVATIONS	HIGHEST_FIO2	11	Float		Highest FIO2 - During given day	OK	
OBSERVATIONS	LOWEST_RASS	12	Integer		Lowest RASS (Richmond Agitation-Sedation Scale) - During given day	OK	
OBSERVATIONS	HIGHEST_RASS	13	Integer		Highest RASS (Richmond Agitation-Sedation Scale) - During given day	OK	
OBSERVATIONS	RASS_3_TO_5	14	Text	1	RASS (Richmond Agitation-Sedation Scale) 3 to 5 - During given day	OK	
OBSERVATIONS	BOWELS_OPENED	15	Text	1	Bowels Opened - During given day	OK	
OBSERVATIONS	CAMICU_SCORE	16	Text	8	CAMICU (Confusion Assessment Method ICU) score - During given day	OK	
PAIN	STUDY_ID	1	Text	64	1 SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
PAIN	ICU_SPELL_ID	2	Integer		2 SPELLS.ICU_SPELL_ID	Unique spell ID	OK
PAIN	DATETIME_RECORDED	3	Timestamp		3	Datetime of pain recorded	OK
PAIN	PAIN_SCORE	4	Text	13		Pain recorded	OK
DRUGS	STUDY_ID	1	Text	64	1 SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
DRUGS	ICU_SPELL_ID	2	Integer		2 SPELLS.ICU_SPELL_ID	Unique spell ID	OK
DRUGS	DATE_RECORDED	3	Date		3	Date of drug summary	OK
DRUGS	PROPOFOL_TOTAL	4	Float			Propofol Total - Drug summary for given day	OK
DRUGS	DEXMEDETOIMIDINE_TOTAL	5	Float			Dexmedetomidine Total - Drug summary for given day	OK
DRUGS	BENZODIAZEPINE_TOTAL	6	Float			Benzodiazepine Total - Drug summary for given day	OK
DRUGS	CLONIDINE_TOTAL	7	Float			Clonidine Total - Drug summary for given day	OK
DRUGS	OPIOIDS_TOTAL	8	Float			Opioids Total - Drug summary for given day	OK
DRUGS	PARALYSING_AGENTS_FLAG	9	Text	1		Paralysing Agents Flag - Drug summary for given day	OK
DRUGS	SPECIFIC_OPIOIDS	10	Text	3052		Full list of opioids	OK
DRUGS	SPECIFIC_BENZODIAZEPINES	11	Text	2295		Full list of benzodiazepines	OK
EVENTS	STUDY_ID	1	Text	64	1 SPELLS.STUDY_ID	Pseudonymised patient identifier	OK
EVENTS	ICU_SPELL_ID	2	Integer		2 SPELLS.ICU_SPELL_ID	Unique spell ID	OK
EVENTS	DATETIME_RECORDED	3	Timestamp		3	Datetime of event	OK
EVENTS	EVENT	4	Text	12		Event type	OK

Table	Column	Code	Name	Description	CHECKS
PMH	DIAGNOSIS_TYPE	D	Diagnosis		OK
PMH	DIAGNOSIS_TYPE	P	Procedure		OK