

Project Details	
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Name	RTIs in ICU
Organisation(s)	UHS

Versioning	
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Version	v1
Version Notes	2658 patients 2018-2026

Cohort	
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Inclusion Criteria	Adult patients with community-acquired respiratory tract infection confirmed by a positive microbiology/virology and admitted to ICU during hospital admission
Exclusion Criteria	<18, ventilator-associated pneumonia, hospital-acquired pneumonia

Metadata	
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Template Version	v1.1
Tables	16
Columns	63
Issues	None

Table	Description	CHECKS
DEMOGRAPHICS	Patient Table	OK
RADIOLOGY	Spell radiology requests	OK
PHYSIOLOGY	Spell physiology measurements	OK
SMOKING	Spell smoking status	OK
ALCOHOL	Spell alcohol consumption status (AUDIT-C)	OK
PATHOLOGY	Pathology test results	OK
SPELLS	Inpatient spells	OK
DIAGNOSES	Spell diagnoses & comorbidities	OK
WARD_MOVEMENTS	Ward movements, including ICU/non-ICU	OK
DECODE_PATHOLOGY_TESTS	Pathology test decode table	OK
DECODE_PATHOLOGY_ITEMS	Pathology item decode table	OK
DECODE_SPECIMENS	Pathology specimen decode table	OK
VENTILATION	Ventilation (highest priority during spell)	OK
VITALS	Vitals/Observations	OK
VITALS_RANGE	Vitals/observations given over a range	OK
DECODE_PARAMETERS	Vitals parameter decode table	OK

Table	Column	Order	Data Type	Length	Vocabularies	Enumerations	Primary Key	Foreign Key Target	Column Description	CHECKS
DEMOGRAPHICS	PATIENT_ID	1	Integer					1	Numeric patient identifier used across tables.	OK
DEMOGRAPHICS	PATIENT_HASH	2	Text	64					Pseudonymised patient identifier	OK
DEMOGRAPHICS	YEAR_OF_BIRTH	3	Integer						Year of birth.	OK
DEMOGRAPHICS	MONTH_OF_BIRTH	4	Integer						Month of birth (1–12).	OK
DEMOGRAPHICS	DECEASED	5	Text	1					Indicator whether patient is deceased (Y/N).	OK
DEMOGRAPHICS	SEX	6	Text	6					Recorded sex (e.g. Male/Female).	OK
DEMOGRAPHICS	ETHNICITY	7	Text	32					Recorded ethnicity.	OK
DEMOGRAPHICS	IMD_DECILE	8	Integer						Index of Multiple Deprivation decile value.	OK
RADIOLOGY	PATIENT_ID	1	Integer					1	Numeric patient identifier.	OK
RADIOLOGY	SPELL_ID	2	Integer					2	Inpatient spell identifier.	OK
RADIOLOGY	TEST_CODE	3	Text	8				3	Radiology test/procedure code.	OK
RADIOLOGY	TEST_NAME	4	Text	40					Radiology test/procedure name.	OK
RADIOLOGY	EXAM_DATETIME	6	Timestamp					4	Date/time exam performed.	OK
RADIOLOGY	REPORT_DATETIME	7	Timestamp						Date/time report issued.	OK
PHYSIOLOGY	PATIENT_ID	1	Integer					1	Numeric patient identifier.	OK
PHYSIOLOGY	SPELL_ID	2	Integer					2	Inpatient spell identifier.	OK
PHYSIOLOGY	MEASUREMENT_TYPE	3	Text	6				3	Type of physiology measurement (e.g. Height, Weight).	OK
PHYSIOLOGY	MEASUREMENT_NO	4	Integer					4	Measurement sequence number.	OK
PHYSIOLOGY	ADMISSION_DATE	5	Timestamp						Admission date/time associated with the spell.	OK
PHYSIOLOGY	MEASUREMENT_DATE	6	Timestamp						Date/time measurement recorded.	OK
PHYSIOLOGY	MEASUREMENT_RESULT	7	Float						Numeric measurement result.	OK
PHYSIOLOGY	UNITS	8	Text	2					Units of measurement (e.g. cm, kg).	OK
SMOKING	PATIENT_ID	1	Integer					1	Numeric patient identifier.	OK
SMOKING	SPELL_ID	2	Integer					2	Inpatient spell identifier.	OK
SMOKING	MEASURE_NO	3	Integer					3	Measurement sequence number.	OK
SMOKING	MEASURE_DATE	4	Timestamp						Date/time of smoking/vaping assessment.	OK
SMOKING	MEASUREMENT	5	Text	16					Assessment type (e.g. Smoking, Vaping).	OK
SMOKING	RESULT	6	Text	64					Recorded result (e.g. Current smoker, Never smoked, No).	OK
ALCOHOL	SPELL_ID	1	Integer					1	Inpatient spell identifier.	OK
ALCOHOL	AUDIT_C_SCORE	2	Integer					2	AUDIT-C alcohol screening score.	OK
PATHOLOGY	PATIENT_ID	1	Integer						Numeric patient identifier.	OK
PATHOLOGY	SPELL_ID	2	Integer						Inpatient spell identifier.	OK
PATHOLOGY	TEST_ID	3	Integer					1	Pathology test row identifier.	OK
PATHOLOGY	SAMPLE_DATE	4	Timestamp						Sample collection date/time.	OK
PATHOLOGY	DATE_REPORTED	5	Timestamp						Result reported date/time.	OK
PATHOLOGY	SPECIMEN_TYPE	6	Text	64					Specimen type code.	OK
PATHOLOGY	REQUEST_TYPE	7	Text	3					Request type code.	OK
PATHOLOGY	ITEM_CODE	8	Text	16					Pathology item code.	OK
PATHOLOGY	TEST_CODE	9	Text	12					Pathology test/analyte code.	OK
PATHOLOGY	RESULT_RAW	10	Text	256					Result as received (raw text/number).	OK
PATHOLOGY	RESULT_PROCESSED	11	Text	18					Processed/standardised result.	OK
PATHOLOGY	RESULT_OPERATOR	12	Text	1					Operator/qualifier associated with result.	OK
SPELLS	PATIENT_ID	1	Integer						Numeric patient identifier.	OK
SPELLS	SPELL_ID	2	Integer					1	Inpatient spell identifier.	OK
SPELLS	DATE_POSITIVE_FIRST_TIME	3	Timestamp						Date/time first positive (as recorded).	OK
SPELLS	ADMISSION_DATE	4	Timestamp						Admission date/time for the spell.	OK
SPELLS	DISCHARGE_DATE	5	Timestamp						Discharge date/time for the spell.	OK
SPELLS	ORGANISATION_CODE	6	Text	3					Organisation code.	OK
SPELLS	ADMISSION_METHOD_CODE	7	Text	2					Admission method code.	OK
SPELLS	ADMISSION_METHOD	8	Text	50					Admission method description.	OK
SPELLS	ADMISSION_SOURCE_CODE	9	Integer						Admission source code.	OK
SPELLS	ADMISSION_SOURCE	10	Text	34					Admission source description.	OK
SPELLS	DISCHARGE_DESTINATION_COI	11	Integer						Discharge destination code.	OK
SPELLS	DISCHARGE_DESTINATION	12	Text	40					Discharge destination description.	OK

DIAGNOSES	PATIENT_ID	1	Integer		1	Numeric patient identifier.	OK
DIAGNOSES	SPELL_ID	2	Integer		2	Inpatient spell identifier.	OK
DIAGNOSES	DIAGNOSIS_CODE	3	Text	5	3	Diagnosis code.	OK
DIAGNOSES	PRIMARY_DIAGNOSIS	4	Text	1		Indicator whether diagnosis is primary for the spell (Y/N).	OK
WARD_MOVEMENTS	PATIENT_ID	1	Integer		1	Numeric patient identifier.	OK
WARD_MOVEMENTS	SPELL_ID	2	Integer		2	Inpatient spell identifier.	OK
WARD_MOVEMENTS	SEQUENCE	3	Integer		3	Order of ward movement within the spell.	OK
WARD_MOVEMENTS	WARD_CODE	4	Text	10		Ward code.	OK
WARD_MOVEMENTS	START_DATE	5	Timestamp			Start date/time of ward stay.	OK
WARD_MOVEMENTS	END_DATE	6	Timestamp			End date/time of ward stay.	OK
WARD_MOVEMENTS	HDU_OR_ICU	7	Text	1		Indicator whether ward stay is HDU/ICU (Y/N).	OK
DECODE_PATHOLOGY_TESTS	REQUEST_TYPE	1	Text	3	1	Request type code.	OK
DECODE_PATHOLOGY_TESTS	TEST_CODE	2	Text	16	2	Test/analyte code.	OK
DECODE_PATHOLOGY_TESTS	TEST_NAME	3	Text	64		Test/analyte name (decode).	OK
DECODE_PATHOLOGY_ITEMS	REQUEST_TYPE	1	Text	3	1	Request type code.	OK
DECODE_PATHOLOGY_ITEMS	ITEM_CODE	2	Text	16	2	Item code.	OK
DECODE_PATHOLOGY_ITEMS	ITEM_NAME	3	Text	64		Item name (decode).	OK
DECODE_SPECIMENS	SPECIMEN_TYPE	1	Text	16	1	Specimen type code.	OK
DECODE_SPECIMENS	SPECIMEN_NAME	2	Text	64		Specimen name (decode).	OK
VENTILATION	PATIENT_ID	1	Integer		1	Numeric patient identifier.	OK
VENTILATION	SPELL_ID	2	Integer		2	Inpatient spell identifier.	OK
VENTILATION	MIN_PRIORITY	3	Float			Minimum priority value used to determine highest respiratory support.	OK
VENTILATION	HIGHEST_RESP_SUPPORT	4	Text	32		Highest respiratory support during spell.	OK
VITALS	PATIENT_ID	1	Integer		1	Numeric patient identifier.	OK
VITALS	SPELL_ID	2	Integer		2	Inpatient spell identifier.	OK
VITALS	PARAMETER_ID	3	Integer		3	Vital sign/observation parameter identifier.	OK
VITALS	TIME	4	Timestamp		4	Date/time observation recorded.	OK
VITALS	OBSERVATION_NO	5	Integer		5	Observation sequence number.	OK
VITALS	VALUE	6	Float			Numeric observation value (if applicable).	OK
VITALS	VALUE_TEXT	7	Text	125		Text observation value (if applicable).	OK
VITALS_RANGE	PATIENT_ID	1	Integer		1	Numeric patient identifier.	OK
VITALS_RANGE	SPELL_ID	2	Integer		2	Inpatient spell identifier.	OK
VITALS_RANGE	SIGNAL_ID	3	Integer		4	Signal identifier.	OK
VITALS_RANGE	PARAMETER_ID	4	Integer		3	Vital sign/observation parameter identifier.	OK
VITALS_RANGE	START_TIME	5	Timestamp			Start date/time for the range.	OK
VITALS_RANGE	END_TIME	6	Timestamp			End date/time for the range.	OK
VITALS_RANGE	VALUE	7	Float			Numeric value for the range.	OK
DECODE_PARAMETERS	PARAMETER_ID	1	Integer		1	Parameter identifier.	OK
DECODE_PARAMETERS	PARAMETER_NAME	2	Text	90		Parameter name (decode).	OK
DECODE_PARAMETERS	UNIT	3	Text	11		Unit of measure for parameter (decode).	OK

Table	Column	Code	Name	Description	CHECKS