

CDM Output Specification

Version 119.0

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[CDM] Admission

Full table name: admission

Primary Key: admission_id

Description: All admissions both past and current of patients into hospital. The minimum scope of admissions should be those that relate to current or past inpatient spells requiring discharge: https://www.datadictionary.nhs.uk/nhs_business_definitions/hospital_provider_spell.html

column	type	notes	description
admission_id	string	Primary Key: admission_id	A unique key for the admission
admission_method	string		Descriptive column for how the patient was admitted to hospital https://www.datadictionary.nhs.uk/attributes/admission_source.html
admission_source_hospital_provider_spell	string	Optional: Derivable by CDM Values: [19, 29, 37, 40, 42, 49, 51, 52, 53, 55, 56, 66, 79, 87, 88, 98, 99, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/admission_source_hospital_provider_spell_.html
admission_status	string	Values: [Discharged, Admitted, null] Severity: FAIL	Latest status of the admission
admission_timestamp	timestamp		Timestamp of admission
admission_title	string	Optional: Derivable by CDM	Title, Patient Name: Date of Birth
admission_type	string	Values: [Inpatient, Outpatient, Daycase, null] Severity: WARN	Admission type, e.g. inpatient, daycase, outpatient
bed_location	string	Optional: Derivable by CDM	The latest bed number to which patient was admitted
date_of_birth	string	Optional: Derivable by CDM	Date of Birth of the patient
destination_of_discharge_hospital_provider_spell	string	Optional: Derivable by CDM Values: [19, 29, 30, 37, 40, 42, 48, 49, 50, 51, 52, 53, 55, 56, 66, 79, 84, 87, 88, 89, 98, 99, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/destination_of_discharge_hospital_provider_spell_.html
discharge_destination_type	string		Type of discharge destination https://www.datadictionary.nhs.uk/data_elements/planned_destination_of_discharge_hospital_provider_spell_.html

column	type	notes	description
discharge_pathway	string	Nullable: False Values: [Pathway 0, Pathway 1, Pathway 2, Pathway 3, Unstated] Severity: WARN	Discharge pathway: https://www.nhs.uk/nhsengland/keogh-review/documents/quick-guides/quick-guide-discharge-to-access.pdf
discharge_ready_date_hospital_provider_spell	timestamp	Optional: Derivable by CDM	https://www.datadictionary.nhs.uk/data_elements/discharge_ready_date_hospital_provider_spell_.html
discharge_timestamp	timestamp		Timetamp of patient discharge from hospital
early_discharge_notification_timestamp	timestamp	Optional: Derivable by CDM	Timestamp of submission of a patient's early discharge notification (EDN)
encounter_id	string	Foreign Key: encounters.encounter_id	Encounter
estimated_discharge_date	timestamp		Estimated timestamp of discharge
intended_management_code	string	Optional: Derivable by CDM Values: [1, 2, 3, 4, 5, 8, 9, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/intended_management_code_.html
is_discharge_time_confirmed	boolean		Patient has confirmed discharge time
length_of_stay_days	int	Optional: Derivable by CDM	Time spent admitted
local_authority	string		The local authority responsible for the patient
master_delay_reason	string	Optional: Derivable by CDM	Primary Reason for a delay to a patients discharge
method_of_admission_hospital_provider_spell	string	Optional: Derivable by CDM Values: [11, 12, 13, 21, 22, 23, 24, 25, 2A, 2B, 2C, 2D, 31, 32, 81, 82, 83, 98, 99, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/method_of_admission_hospital_provider_spell_.html
method_of_discharge_hospital_provider_spell	string	Optional: Derivable by CDM Values: [1, 3, 4, 5, 6, 7, 8, 9, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/method_of_discharge_hospital_provider_spell_.html
mrn	string	Optional: Derivable by CDM	Patient MRN
ncepod_urgency_code	string	Optional: Derivable by CDM Values: [01, 02, 03, 04, null] Severity: WARN	https://www.ncepod.org.uk/ 01 Immediate, 02 Urgent, 03 Expedited, 04 Elective
needs_based_assessment_timestamp	timestamp	Optional: Derivable by CDM	Timestamp of submission of a patient's needs based assessment (NBA)

column	type	notes	description
nhs_number	string	Optional: Derivable by CDM	NHS number, National-level identifier for a patient https://www.datadictionary.nhs.uk/attributes/nhs_number.html
patient_classification_code	string	Optional: Derivable by CDM Values: [1, 2, 3, 4, 5, 8, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/patient_classification_code.html
patient_id	string	Foreign Key: patient.person_id	Patient
patient_name	string	Optional: Derivable by CDM	Name of patient
site_id	string	Optional: Derivable by CDM	The latest hospital site id to which patient was admitted
site_name	string	Optional: Derivable by CDM	The latest hospital site to which patient was admitted
specialty_id	string	Foreign Key: specialty.specialty_id	Specialty
specialty_name	string	Optional: Derivable by CDM	Specialty name
to_take_away_status	string	Optional: Derivable by CDM Values: [Draft, Review, Written, Problem, Screened, Ready, Issued, null] Severity: WARN	Status of a patient's To Take Away medications prescription.
to_take_away_status_timestamp	timestamp	Optional: Derivable by CDM	Timestamp of the most recent To Take Away update
waiting_area	string	Optional: Derivable by CDM	Binary y/n, if the patient is waiting to come in to wards
ward	string		The latest ward to which patient was admitted
ward_intended_clinical_care_intensity	string	Optional: Derivable by CDM Values: [51, 52, 53, 61, 62, 63, 41, 43, 42, 33, 32, 31, 21, 22, 81, 11, 12, 13, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/ward_intended_clinical_care_intensity.html

[CDM] Appointment

Full table name: appointment

Primary Key: attendance_id

Description: An Appointment for a patient to be seen by a care professional: <https://www.datadictionary.nhs.uk/classes/appointment.html>. The minimum scope of appointments should be those that relate to inpatient bookings (pre-operative assessments) as well as those which relate to future or past outpatient clinics

column	type	notes	description
appointment_free_text	string	Optional: Derivable by CDM	Operational-only free-text column for notes contained in the PAS which operational users sometimes rely on
attendance_id	string	Primary Key: attendance_id	ID for the appointment
booked_duration	int	Optional: Derivable by CDM	The duration booked for the appointment (minutes): https://www.datadictionary.nhs.uk/data_elements/expected_duration_of_appointment.html
booked_by	string	Optional: Derivable by CDM	Source system ID of the user who booked the appointment
booking_status	string	Values: [Booked, Waiting, Attended, Did not attend, Cancelled, Did not wait, Removed, Rescheduled, Checked in, Checked out, null] Severity: WARN	The booking status for the appointment (e.g. Attended, Cancelled)
cancellation_reason	string		Reason for appointment cancellation (e.g. Hospital cancelled, Patient Cancelled)
category	string		The category of outpatient appointment. This can indicate whether the appointment is a consultation or for clinical testing (e.g. Consult, Lab)
clinic_id	string	Foreign Key: clinic.clinic_id	The specific outpatient clinic session that the appointment is booked in for. This can be undefined for pre-operative assessment appointments
code	string		The clinic, resource or group code for the appointment. This should be the code used to match the appointment to a specific slot type in a clinic.

column	type	notes	description
date_time_booked	timestamp		Date and time the appointment was booked: https://www.datadictionary.nhs.uk/attributes/service_request_date.html
date_time_cancelled	timestamp		Date and time the appointment was cancelled: https://www.datadictionary.nhs.uk/attributes/appointment_cancelled_date.html
end_date_time	timestamp		Appointment end date and time
is_first_appointment	boolean		true if this is the first appointment in the pathway. false if this is a follow-up appointment: https://www.datadictionary.nhs.uk/attributes/appointment_first_attendance.html
is_poa_appointment	boolean		true if the appointment is a pre-operative assessment
outcome	string	Values: [Awaiting further investigations, Fit to proceed, Unoutcomed, Cancel surgery, Appointment to be made at a later date, Another appointment given, Discharged from consultant's care, null] Severity: WARN	Outcome for all appointments: https://www.datadictionary.nhs.uk/attributes/outcome_of_attendance.html
patient_id	string	Foreign Key: patient.person_id	The patient the appointment is scheduled for
priority	string		The priority of the appointment: https://www.datadictionary.nhs.uk/attributes/priority_type.html (e.g. Urgent, Routine)
referral_id	string	Foreign Key: referral.referral_id	ID of the linked referral
rtt_pathway_status	string	Values: [Non-RTT Pathway, Active RTT Pathway, Inactive RTT Pathway, null] Severity: WARN	Is on active RTT pathway
rtt_period_end_date	date		Date of RTT clock stop
rtt_period_length	int		RTT period length (days)
rtt_period_start_date	date		Date of RTT clock start
specialty_id	string	Foreign Key: specialty.specialty_id	The specialty ID related to the appointment
specialty_name	string	Optional: Derivable by CDM	The specialty related to the appointment

column	type	notes	description
start_date_time	timestamp		Appointment start date and time: https://www.datadictionary.nhs.uk/data_elements/appointment_date_and_time.html
treatment_function_code	string	Optional: Derivable by CDM	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_name	string	Optional: Derivable by CDM	The corresponding name of the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
type	string		The type of the appointment (e.g. New, F/Up, Telephone F/Up)

[CDM] Booking Request

Full table name: booking-request

Primary Key: booking_request_id

Description: Dataset for a request to book an encounter, or modify an already booked encounter (cancel, reschedule)

column	type	notes	description
action	string		Booking action required
am_pm	string		Whether the booking is morning/afternoon/all day (values - AM / PM / AD)
assigned_team_id	string		ID of the team assigned to this task
assigned_team_name	string		Name of assigned team of this task
assigned_user_ids	array		IDs of users assigned to this task
assigned_user_group	string		User group responsible for booking request
booking_request_id	string	Primary Key: booking_request_id	ID of booking request
closed_at	timestamp		Timestamp when this task was closed
closed_by	string		User who closed this task
comment	string		Booking request comment
consultant_id	string	Foreign Key: care-professional.care_professional_id	Encounter lead consultant
date	date		Date of the booking
encounter_estimated_total_theatre_time	int		Estimated total theatre time of the encounter
encounter_id	string	Foreign Key: encounters.encounter_id	Foreign key: encounter
intended_primary_procedure_description	string		Description of the intended primary procedure
intended_primary_procedure_free_text	string		Free-text description of the intended primary procedure
mnemonic	string		Mnemonic used to identify the booking
mrn	string		Patient MRN
person_id	string		ID, a unique identifier for each patient

column	type	notes	description
procedure_code	string		OPCS code of the procedure - https://www.datadictionary.nhs.uk/data_elements/primary_procedure_opcs_.html
reason	string		Booking request reason
specialty_id	string	Foreign Key: specialty.specialty_id	Associated encounter specialty
status	string		Status of booking request (Open, Completed, Declined, Pending)
task_priority	string		High, Medium, or Low
task_due_date	date		Due date for this task
task_type	string		Task type - this will always be 'Inpatient Booking Request'
theatre_booking_id	string		ID of the associated theatre booking
theatre_name	string		Name of the theatre
theatre_session_id	string	Foreign Key: theatre-session.theatre_session_id	Associated theatre session
theatre_session_planned_duration_minutes	int		Duration of the planned theatre session
theatre_session_primary_consultant_id	string		ID of the primary consultant
timestamp	timestamp		Timestamp booking request created
title	string		Booking request title
type	string		Booking request type (Book, Move, Cancel)
updated_at	timestamp		Timestamp when this task was most recently updated
updated_by	string		User who most recently updated this task
user_id	string		Multipass user id of user creating booking request

[CDM] Booking Request Comment

Full table name: ccs-booking-request-comment

Primary Key: comment_id

Description: Dataset for capturing comments on booking requests

column	type	notes	description
booking_request_id	string	Foreign Key: booking-request.booking_request_id	Booking request
comment_action	string		Action taken when creating comment
comment_id	string	Primary Key: comment_id	ID of comment
comment_markdown	string		Markdown version of free text comment
comment_text	string		String text of comment
comment_timestamp	timestamp		Timestamp when comment was created
comment_user	string		multipass user-id of user creating comment
tags	array		Tags of comment

[CDM] Care Professional

Full table name: care-professional

Primary Key: care_professional_id

Description: Care professionals employed by the trust. This should include consultants and anaesthetists at a minimum, but can include all staff members: https://www.datadictionary.nhs.uk/classes/care_professional.html. Care professional information is used to filter waiting list, theatre and clinic data by the primary responsible consultant, as well as viewing which staff members are assigned to specific theatre sessions and clinics

column	type	notes	description
care_professional_id	string	Primary Key: care_professional_id	ID for the Care Professional
care_professional_local_id	string		Trust local identifier for the care professional, e.g. a GMC number
is_active	boolean		true if the Care Professional is currently employed by trust. Past employees are required for completeness within the dataset
name	string		Care Professional name (Last Name, First Name)
role	string	Values: [Consultant, Anaesthetist, Scrub, ODP, Nurse, Other, null] Severity: WARN	Care Professional role allowed values are "Consultant", "Anaesthetist", "Scrub", "ODP", "Nurse" and "Other"
specialty_ids	array		list of specialty IDs the care professional is responsible for
specialty_names	array	Optional: Derivable by CDM	list of specialty names the care professional is responsible for

[CDM] Change Log Request

Full table name: ccs-change-log

Primary Key: change_log_id

Description: Request to make a change to an encounter

column	type	notes	description
action_type	string		Required action type (close, modify)
assigned_team_id	string		ID of the team assigned to this task
assigned_team_name	string		Name of assigned team of this task
assigned_user_ids	array		IDs of users assigned to this task
change_log_id	string	Primary Key: change_log_id	ID
closed_at	timestamp		Timestamp when this task was closed
closed_by	string		User who closed this task
description	string		Change request description (e.g. incorrect entry)
eal_id	string	Foreign Key: eal-entry.eal_id	Eal
encounter_id	string	Foreign Key: encounters.encounter_id	Encounter
free_text_comments	string		Free text comments for change request
is_rtt	boolean		Defines if this is an active RTT pathway as per the rtt_pathway_status
new_value	string		New value of property to modify
pre_resolved	boolean		Is pre-resolved by DQ team
property_to_modify	string		Property to modify (if action type is modify)
rcs_clinical_harm_review	string		Clinical harm review for priority changes
requested_by	string		Multipass user-id of requester
resolved	boolean		Has been resolved
specialty_id	string		Foreign key, specialty
specialty_name	string		Specialty name
task_due_date	date		Due date for this task
task_priority	string		High, Medium, or Low
task_type	string		Task type - this will always be 'Inpatient Change Request'

column	type	notes	description
timestamp	timestamp		Created timestamp

[CDM] Clinic Letter

Full table name: clinic-letter

Primary Key: clinic_letter_id

Description: Dataset containing metadata, including clinic letter dates, for validation teams to identify new letters summarizing patient appointments, diagnoses, treatment decisions, and next steps.

column	type	notes	description
appointment_id	string	Foreign Key: appointment.attendance_id	Appointment the letter relates to
clinic_letter_date	timestamp		Timestamp the clinic letter was written
clinic_letter_id	string	Primary Key: clinic_letter_id	Unique identifier for the clinic letter
clinic_letter_type	string	Optional: Derivable by CDM	Type of clinic letter
consultant_id	string		Consultant who wrote the letter
patient_id	string		Patient the letter relates to
specialty_name	string	Optional: Derivable by CDM	Specialty for the linked appointment

[CDM] Clinic Session

Full table name: clinic

Primary Key: clinic_id

Description: Consultant clinic sessions: https://www.datadictionary.nhs.uk/nhs_business_definitions/consultant_clinic_session.html The minimum scope of clinic sessions should be those that relate to outpatient clinics

column	type	notes	description
am_pm	string	Optional: Derivable by CDM Values: [AM, PM, AD, null] Severity: WARN	Signifies whether the clinic is morning/afternoon/all day
booking_team	string	Optional: Derivable by CDM	Type of team booking for this clinic e.g., centralised, de-centralised, partial for the clinic
care_professional_id	string		Care professional holding the clinic session
clinic_code	string		Clinic/resource code for the clinic. This should match the appointment code.
clinic_free_text	string	Optional: Derivable by CDM	Optional data field to denote operational-only clinic requirements for the clinic
clinic_end_timestamp	timestamp		Date and time of the clinic session end
clinic_id	string	Primary Key: clinic_id	ID for the clinic session
clinic_name	string		Name of the clinic (e.g. DOCTOR, D1)
clinic_start_timestamp	timestamp		Date and time of the clinic session start: https://www.datadictionary.nhs.uk/attributes/session_date.html
has_annual_leave	boolean	Optional: Derivable by CDM	true if the care professional holding the clinic session has an annual leave event during the session
has_annual_leave_string	string	Optional: Derivable by CDM	Stringified version of the has_annual_leave column
is_cancelled	boolean	Optional: Derivable by CDM	true if the clinic session has been cancelled
is_private	boolean	Optional: Derivable by CDM	true if clinic is for private patients

column	type	notes	description
location	string		The physical location the clinic takes place in: https://www.datadictionary.nhs.uk/classes/location.html (e.g. LGF, Gate 3)
overbooked	boolean	Optional: Derivable by CDM	true if clinic is overbooked
room_id	string		the clinic room ID the session is held in
site_id	string	Foreign Key: site.id	The Hospital site ID: https://www.datadictionary.nhs.uk/nhs_business_definitions/hospital_site.html?hl=hospital%2Csite
site_name	string	Optional: Derivable by CDM	Hospital site at which the activity will take place
slot_specialty_ids	array	Optional: Derivable by CDM	Aggregation of all relevant specialties for a given clinic based on slot data
specialty_id	string		Primary Specialty of the clinic
start_day_of_week	string	Optional: Derivable by CDM	Clinic start day of week (e.g. Monday, Tuesday)
status	string	Values: [Active, On hold, Cancelled, null] Severity: WARN	The latest activity status of the clinic (e.g. Active, On hold, Cancelled).
status_reason	string	Optional: Derivable by CDM	Optional data field to provide additional operational context around the latest status of the clinic (e.g., hold reason, cancellation reason)
total_booked_duration	int	Optional: Derivable by CDM	Total booked duration (minutes)
total_booked_slots	int	Optional: Derivable by CDM	Total number of booked appointment slots in the clinic session
total_duration	int	Optional: Derivable by CDM	Total clinic duration (minutes)
total_slots	int		Total number of active appointment slots available in the clinic session (e.g., the slot is not on hold or cancelled)
total_vacant_slot_duration	int	Optional: Derivable by CDM	Total unbooked duration (minutes)
total_vacant_slots	int	Optional: Derivable by CDM Nullable: False	Total number of vacant appointment slots in the clinic session. This should equal the sum of vacant new and follow-up slots. Can be derived if vacant new/follow-up slot data is available

column	type	notes	description
total_vacant_slots_followup	int		Total number of vacant appointment slots for follow-up appointments in the clinic session
total_vacant_slots_new	int		Total number of vacant appointment slots for new appointments in the clinic session
type	string	Optional: Derivable by CDM	The type of clinic e.g. pre-op, face-to-face
treatment_function_codes	array	Optional: Derivable by CDM	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_names	array	Optional: Derivable by CDM	The corresponding name of the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
clinic_type_name	string	Optional: Derivable by CDM	Name of the clinic type
clinic_type_id	string	Optional: Derivable by CDM	Unique identifier of clinic type
clinic_type_active	boolean	Optional: Derivable by CDM	Defines if clinic type should be available for booking of appointments.

[CDM] Clinic Slot

Full table name: slots

Primary Key: slot_id

Description: Appointment slot sessions: https://www.datadictionary.nhs.uk/nhs_business_definitions/consultant_clinic_session.html The minimum scope of slot should be those that relate to outpatient clinic sessions. It should be considered as a period of time within a session for one or more appointments with a Consultant.

column	type	notes	description
activity_priority	string	Optional: Derivable by CDM	Indicates the priority of the activity this slot should be filled with
activity_type	string	Nullable: False	Indicates the type of activity this slot should be filled with (for example New or Follow-up)
am_pm	string	Optional: Derivable by CDM Values: [AM, PM, AD, null] Severity: WARN	Signifies whether the slot is morning/afternoon/all day
appointment_id	string	Foreign Key: appointment.attendance_id	FK of the appointment that belongs to this slot
care_professional_id	string	Foreign Key: care-professional.care_professional_id	FK of the care professional for this slot
clinic_id	string	Foreign Key: clinic.clinic_id Nullable: False	FK of the session this slot belongs to
comment	string	Optional: Derivable by CDM	Note users enter in PAS to enhance booking criteria for certain slots
description	string		A string description of the slot, typically providing multiple key pieces of information in one value
end_time	timestamp	Nullable: False	End time of the slot
location_description	string		General area/location for this slot
resource_code	string	Nullable: False	Generic resource code for what templated session this slot fits into (e.g., clinic code in clinics)
session_type	string	Nullable: False	Used to differentiate slots for different types of sessions
site_id	string	Foreign Key: site.id	FK of the hospital site for this slot
site_name	string	Optional: Derivable by CDM	Hospital site at which the activity will take place
slot_date	date	Optional: Derivable by CDM	The date of the slot

column	type	notes	description
slot_duration	int	Optional: Derivable by CDM	The duration of the slot (in minutes)
slot_id	string	Primary Key: slot_id Nullable: False	ID for the slot
slot_type	string		Indicates what type of slot it is (for example Discrete or Continuous)
start_time	timestamp	Nullable: False	Start time of the slot
status	string	Nullable: False	Indicates whether the slot has been booked, is available for booking or potentially on hold/cancelled
service_ids	array	Optional: Derivable by CDM	ID's of linked services.

[CDM] Clinic Type

Full table name: clinic-type

Primary Key: clinic_type_id

Description: Type of outpatient clinic.

column	type	notes	description
clinic_type_id	string	Primary Key: clinic_type_id Optional: Derivable by CDM Nullable: False	Unique Identifier of the clinic type.
clinic_type_name	string	Optional: Derivable by CDM	Name of the clinic type.
clinic_type_active	boolean	Optional: Derivable by CDM	Defines if this type of clinic is active and available for signposting and booking of patients.
specialty_id	string	Foreign Key: specialty.specialty_id Optional: Derivable by CDM	ID of the specialty that runs clinic of this type.

[CDM] Dataset Refresh Time

Full table name: ccs-dataset-refresh-times

Primary Key: dataset_name

Description: Tracks the last ingest and refresh times of ontology datasets

column	type	notes	description
dataset_name	string	Primary Key: dataset_name Values: [theatre_booking, encounters, patient, eal-entry, procedure, theatre-session, unbooked_patients, appointment, outpatient-activity, clinic, referral, patient-pathway, rtt-period, rtt-validation-event, null] Severity: WARN	name of the dataset refreshed
last_refresh_source	string		source of last refresh i.e PAS, DWH, etc..
last_refresh_timestamp	timestamp		last refresh timestamp

[CDM] Diagnostics Waitlist Entry

Full table name: diagnostics-waitlist

Primary Key: diagnostics_waitlist_id

Description: Diagnostics Request Activity. This consists of diagnostics requests made for patients, along with booking dates for those requests.

column	type	notes	description
added_to_waitlist_timestamp	timestamp		Timestamp of when the patient was added to the diagnostic waitlist.
diagnostics_date	date		Booking date of the diagnostics appointment. Remains null if the diagnostics appointment has not been booked yet.
diagnostics_request	string		The diagnostics request being made e.g. Blood Test, CT Scan, etc.
diagnostics_waitlist_id	string	Primary Key: diagnostics_waitlist_id	Primary key - ID for a diagnostic waitlist entry.
pathway_id	string	Foreign Key: patient-pathway.pathway_id	Foreign key to connect to pathway.
patient_id	string	Foreign Key: patient.person_id	Foreign key to connect to patient.
priority	string		The priority of the diagnostics waitlist entry.
six_week_breach_date	date	Optional: Derivable by CDM	Date when the diagnostics waitlist entry will breach six weeks since it was added to the waitlist.
specialty_id	string	Foreign Key: specialty.specialty_id	Foreign key to connect to pathway.

[CDM] EAL Entry

Full table name: eal-entry

Primary Key: eal_id

Description: Elective admission list of patients requiring an elective procedure. This should contain the same content as the encounters table but with additional Referral To Treatment metadata. This information is used to support users in identifying patients who may be breaching RTT thresholds

column	type	notes	description
days_since_decided_to_admit_date	int	Optional: Derivable by CDM	Days since decision to admit was made
decided_to_admit_date	date		Date when decision to admit was made: https://www.datadictionary.nhs.uk/attributes/original_decided_to_admit_date.html
eal_id	string	Primary Key: eal_id	ID which uniquely identifies each elective admission list entry
is_rtt	boolean	Optional: Derivable by CDM	Defines if this is an active RTT pathway as per the rtt_pathway_status
patient_id	string	Foreign Key: patient.person_id	ID for the patient related to the elective admission list entry
patient_name	string	Optional: Derivable by CDM	Patient name (Surname, First name). This column uses the full_name value from the patient table, linked on patient_id
planned_date	date		Planned admission date
priority	string	Optional: Derivable by CDM	Clinical priority of the entry (RCS or Urgent, Cancer, Routine). This column uses the priority value from the encounters table, linked on encounter_id
removal_date	date	Optional: Derivable by CDM	Date removed from waiting list: https://www.datadictionary.nhs.uk/attributes/elective_admission_list_removal_date.html This column uses the removal_date value from the encounters table, linked on encounter_id

column	type	notes	description
removal_reason	string	Optional: Derivable by CDM	Description of reason removed from waiting list: https://www.datadictionary.nhs.uk/attributes/elective_admission_list_removal_reason.html This column uses the removal_reason value from the encounters table, linked on encounter_id
removal_reason_code	string	Optional: Derivable by CDM	Code for reason removed from waiting list: https://www.datadictionary.nhs.uk/attributes/elective_admission_list_removal_reason.html This column uses the removal_reason_code value from the encounters table, linked on encounter_id
rtt_days_paused	int		Number of days for which the RTT clock has been paused
rtt_episode_id	string		Current RTT episode ID
rtt_pathway_id	string	Foreign Key: patient-pathway.pathway_id	RTT pathway ID: https://www.datadictionary.nhs.uk/classes/patient_pathway.html
rtt_pathway_status	string	Values: [Active RTT Pathway, Non-RTT Pathway, Inactive RTT Pathway, null] Severity: WARN	Status on RTT pathway (Active, Inactive, Non-RTT)
rtt_period_104_week_breach_date	date	Optional: Derivable by CDM	Date at which the patient will breach more than 104 weeks waiting
rtt_period_18_week_breach_date	date	Optional: Derivable by CDM	Date at which the patient will breach more than 18 weeks waiting
rtt_period_52_week_breach_date	date	Optional: Derivable by CDM	Date at which the patient will breach more than 52 weeks waiting
rtt_period_78_week_breach_date	date	Optional: Derivable by CDM	Date at which the patient will breach more than 78 weeks waiting
rtt_period_days_to_104_week_breach	int	Optional: Derivable by CDM	Number of days until patient breaches 104 weeks waiting
rtt_period_days_to_18_week_breach	int	Optional: Derivable by CDM	Days until 18 week wait breach date
rtt_period_days_to_52_week_breach	int	Optional: Derivable by CDM	Days until 52 week wait breach date
rtt_period_days_to_78_week_breach	int	Optional: Derivable by CDM	Number of days until patient breaches 78 weeks waiting

column	type	notes	description
rtt_period_end_date	date		Clock stop date of most recent RTT period: https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_end_date.html
rtt_period_id	string	Foreign Key: rtt-period.rtt_period_id	RTT period ID: https://www.datadictionary.nhs.uk/classes/referral_to_treatment_period.html
rtt_period_is_42_week_waiter	boolean	Optional: Derivable by CDM	Has been waiting more than 42 weeks, so likely to breach
rtt_period_is_42_week_waiter_string	string	Optional: Derivable by CDM Values: [Yes, No, null] Severity: WARN	Stringified rtt_period_is_42_week_waiter
rtt_period_is_68_week_waiter	boolean	Optional: Derivable by CDM	true if patient has been waiting for more than 68 weeks
rtt_period_is_68_week_waiter_string	string	Optional: Derivable by CDM Values: [Yes, No, null] Severity: WARN	Stringified version of if patient has been waiting for more than 68 weeks
rtt_period_is_94_week_waiter	boolean	Optional: Derivable by CDM	true if patient has been waiting for more than 94 weeks
rtt_period_is_94_week_waiter_string	string	Optional: Derivable by CDM Values: [Yes, No, null] Severity: WARN	Stringified version of if patient has been waiting for more than 94 weeks
rtt_period_length	int	Optional: Derivable by CDM	Difference in days between coalesce(rtt_period_end_date, current_date) and rtt_period_start_date, minus any paused time. None if either rtt_period_start_date or rtt_days_paused is None.
rtt_period_start_date	date		Clock start date of current RTT period: https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_start_date.html
rtt_period_time_bands	string	Optional: Derivable by CDM	Banded version of rtt_period_weeks_waiting, e.g. 00-06WW
rtt_period_weeks_waiting	int	Optional: Derivable by CDM	rtt_period_length / 7
rtt_status_code	string		RTT status code https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_statuses.html

column	type	notes	description
title	string	Optional: Derivable by CDM	Title of EAL entry (Specialty: Surname, Firstname)

[CDM] ERS Service

Full table name: ers-service

Primary Key: service_id

Description: Services published in the eRS Service Directory.

column	type	notes	description
service_id	string	Primary Key: service_id	Unique Identifier for the eRS Service in Source System.
service_name	string		Name of the Service.
service_directory_id	string		Unique Identifier of the Service in eRS Directory of Services.
active	boolean		Flag to define if the service is currently active/published in eRS.
referral_reason	string		Description of the valid reason for GP's to refer into that service.
service_type	string	Values: [RAS, Non-RAS, null] Severity: WARN	Defines if the referral needs to go through a triage step or not (RAS / Non-RAS).
site_id	string	Foreign Key: site.id	Identifier of the Hospital Site or Health Centre linked to the service.
specialty_ids	array		Identifiers of all Specialties that run clinic sessions which have slots that are linked to this service.

[CDM] Encounter

Full table name: encounters

Primary Key: encounter_id

Description: All encounters, either booked or unbooked, for patients who have or will receive treatment at the trust. The minimum scope of encounters should be those that relate to present or past entries on the trust Elective Admission List: https://www.datadictionary.nhs.uk/classes/elective_admission_list.html. Encounters are used to display waiting list information and support users in booking patients into available theatre sessions

column	type	notes	description
administrative_category_code	string	Values: [01, 02, 03, 04, null] Severity: WARN	Administrative category code (on admission): https://www.datadictionary.nhs.uk/data_elements/administrative_category_code__on_admission_.html
administrative_category_code_on_admission	string	Optional: Derivable by CDM Values: [01, 02, 03, 04, null] Severity: WARN	https://www.datadictionary.nhs.uk/data_elements/administrative_category_code__on_admission_.html
administrative_category_description	string		Administrative category description (on admission): https://www.datadictionary.nhs.uk/data_elements/administrative_category_code__on_admission_.html
admission_method	string	Values: [Planned, Unplanned, Booked, Waiting List, null] Severity: WARN	Status column to signify the method of admission. Values should correspond to the descriptions for https://www.datadictionary.nhs.uk/attributes/method_of_admission.html
admission_status	string	Values: [Planned, Admitted, Hospital Cancellation, DNA, null] Severity: WARN	Patient admission status
admission_sub_status	string	Optional: Derivable by CDM	Sub category of admission status
admission_type	string	Optional: Derivable by CDM Values: [INPATIENT, DAYCASE, null] Severity: WARN	Type of admission (Inpatient or Daycase)
ats_total_theatre_time	int		Estimated total time in theatre in minutes to be used for ATS calculation. Trusts are expected to choose between estimated_total_theatre_time and calculated_total_theatre_time.
calculated_total_theatre_time	int	Optional: Derivable by CDM	Calculated total time in theatre in minutes, based on historical average

column	type	notes	description
created_by	string		Full name of the user who created the encounter
created_date	date		Date the encounter was created
criteria_to_reside	string	Optional: Derivable by CDM Values: [0A, 0B, 0C, 0D, 0E, 0F, A, B, C, D, X, null] Severity: WARN	https://www.england.nhs.uk/coronavirus/documents/covid-19-eppr-community-daily-discharge-sitrep-technical-specification/
critical_care_bed_status	string	Optional: Derivable by CDM Values: [Requested, Allocated, Request Rejected, Not Required, null] Severity: WARN	Identifies the status of a critical care bed if a patient requires it
disease_outbreak_notification_description	string	Optional: Derivable by CDM	https://datadictionary.nhs.uk/data_elements/disease_outbreak_notification_description.html
disease_outbreak_notification_snomed_ct	string	Optional: Derivable by CDM	https://datadictionary.nhs.uk/data_elements/disease_outbreak_notification_snomed_ct.html
eal_id	string	Foreign Key: eal-entry.eal_id	ID for the corresponding EAL entry: https://www.datadictionary.nhs.uk/classes/elective_admission_list_entry.html
encounter_free_text	string	Optional: Derivable by CDM	Textual details relating to the patients waiting list entry
encounter_id	string	Primary Key: encounter_id	ID, a unique identifier for the encounter
encounter_type	string	Nullable: False Values: [Inpatient, Outpatient] Severity: WARN	Type of encounter (Inpatient or Outpatient). Note that if only encounters relating to the Elective Admission List are included, this column will always be "Inpatient"
estimated_total_theatre_time	int		Estimated total procedure time in theatre, in minutes
external_id	string	Optional: Derivable by CDM	External ID for the encounter used in an external source system (i.e. PAS). This can be used to provide a direct URL link from the encounter to the record in the PAS
has_future_tci	boolean	Optional: Derivable by CDM	true if patient has a TCI date in the future
has_tci	boolean	Optional: Derivable by CDM	true if tci_date is not null

column	type	notes	description
hospital_provider_spell_identifier	string	Optional: Derivable by CDM	https://www.datadictionary.nhs.uk/data_elements/hospital_provider_spell_identifier.html
intended_management_code	string	Optional: Derivable by CDM Values: [1, 2, 3, 4, 5, 8, 9, null] Severity: WARN	https://www.datadictionary.nhs.uk/attributes/intended_management.html
intended_management_description	string	Optional: Derivable by CDM	Textual description of the intended management. Derived from the intended_management_code, per https://www.datadictionary.nhs.uk/attributes/intended_management.html
intended_primary_procedure_anaesthetic_type	string	Optional: Derivable by CDM	Anaesthetic type to be used for the intended primary procedure (GA/LA). This column uses the intended_procedure_anaesthetic_type value from the primary procedure linked to this encounter in the procedure table, linked on encounter_id
intended_primary_procedure_anaesthetist_required	boolean	Optional: Derivable by CDM	true if anaesthetist is required for intended primary procedure
intended_primary_procedure_code	string	Optional: Derivable by CDM	OPCS code of intended primary procedure: https://www.datadictionary.nhs.uk/data_elements/primary_procedure__opcs.html . This column uses the intended_procedure_code value from the primary procedure linked to this encounter in the procedure table, linked on encounter_id
intended_primary_procedure_description	string	Optional: Derivable by CDM	Description of the intended primary procedure. This column uses the intended_procedure_description value from the primary procedure linked to this encounter in the procedure table, linked on encounter_id
intended_primary_procedure_free_text	string	Optional: Derivable by CDM	Free text description of the intended primary procedure. This column uses the intended_procedure_free_text value from the primary procedure linked to this encounter in the procedure table, linked on encounter_id
intended_primary_procedure_free_text_long	string	Optional: Derivable by CDM	Full textual description of intended primary procedure

column	type	notes	description
is_booked	boolean	Nullable: False	true if patient is booked in for treatment
is_metric_encounter	boolean	Optional: Derivable by CDM	true if this encounter is used to derive metrics, false if this encounter should be excluded from metric derivations.
is_suitable_for_pooled_list	boolean		true if the patient can be added to a pooled list
issues	array		List of patient readiness issues that have been raised on this encounter
last_covid_swab_booking_status	string	Optional: Derivable by CDM	Most recent booking status for COVID swab test. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.
last_covid_swab_outcome	string	Optional: Derivable by CDM	Outcome of the most recent COVID swab test. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.
last_mrsa_swab_booking_status	string	Optional: Derivable by CDM	Most recent booking status for MRSA swab test. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.
last_mrsa_swab_outcome	string	Optional: Derivable by CDM	Outcome of the most recent MRSA swab test. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.
last_poa_booking_status	string	Optional: Derivable by CDM	The most recent booking status for the POA appointment. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.
last_poa_outcome	string	Optional: Derivable by CDM	Outcome of the most recent POA appointment. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.

column	type	notes	description
last_poa_scheduled_or_attended_datetime	timestamp	Optional: Derivable by CDM	Scheduled or attended datetime of the most recent POA appointment. If the trust uses Cerner then you will need to supply this property according to their custom derivation logic.
latest_rcs_clinical_harm_review	string	Values: [None, Mild, Moderate, Severe, null] Severity: WARN	Outcome of the most recent clinical harm review
local_treatment_function	string	Optional: Derivable by CDM	https://www.datadictionary.nhs.uk/classes/local_sub-specialty.html
needs_reprioritisation	boolean		true if this encounter needs to be reprioritised (often defined by a TCI date in the past, or non-P Codes)
patient_cancellation_count	int	Optional: Derivable by CDM	The number of times the patient has had a cancelled theatre booking for this encounter
patient_id	string	Foreign Key: patient.person_id	ID for the patient requiring treatment
patient_name	string	Optional: Derivable by CDM	Full patient name (Surname, Firstname). This column uses the full_name value from the patient table, linked on patient_id
pathway_id	string	Foreign Key: patient-pathway.pathway_id	Pathway ID: https://www.datadictionary.nhs.uk/classes/patient_pathway.html
peri_op_risk_stratification_outcome	string	Optional: Derivable by CDM	Outcome of peri-op risk stratification. This value may provide additional useful information to help scheduling and booking teams determine whether or not a patient can be booked in for surgery.
poa_required	string	Values: [Booked, Required, Not Required, null] Severity: WARN	Signifies whether a POA is required for this encounter
primary_consultant_id	string	Foreign Key: care-professional.care_professional_id	ID for the primary consultant who is responsible for the encounter
primary_consultant_name	string	Optional: Derivable by CDM	Name of the primary consultant who is responsible for the encounter. This column uses the name value from the care-professional table, linked on primary_consultant_id

column	type	notes	description
primary_diagnosis_icd	string	Optional: Derivable by CDM	https://www.datadictionary.nhs.uk/data_elements/primary_diagnosis__icd_.html
primary_procedure_opcs	string	Optional: Derivable by CDM	https://www.datadictionary.nhs.uk/data_elements/primary_procedure__opcs_.html
primary_procedure_start_time	timestamp		Primary procedure start time (if the encounter has been booked in). This column uses the procedure_start_time value from the primary procedure linked to this encounter in the procedure table, linked on encounter_id
primary_procedure_type	string	Optional: Derivable by CDM	Type of the primary procedure. This column uses the procedure_type value from the primary procedure linked to this encounter in the procedure table, linked on encounter_id
priority	string		Clinical priority of the encounter
priority_last_updated	timestamp		Timestamp recording the last time the priority was updated
priority_ordered	string		Ordered priority (used for sorting). This should have the numeric order of the clinical priority appended to the priority string, e.g. 01. <priority>
referral_priority	string		GP referral priority of the encounter (RCS or Urgent, Cancer, Routine)
remain_reason	string	Optional: Derivable by CDM Values: [01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, null] Severity: WARN	https://www.england.nhs.uk/coronavirus/documents/covid-19-eppr-community-daily-discharge-sitrep-technical-specification/
removal_date	date		Date the encounter was closed
removal_reason	string		String description of closure reason: https://www.datadictionary.nhs.uk/data_elements/elective_admission_list_removal_reason_code.html
removal_reason_code	string		Code for removal reason (null if encounter is open): https://www.datadictionary.nhs.uk/data_elements/elective_admission_list_removal_reason_code.html

column	type	notes	description
removed	boolean	Optional: Derivable by CDM Nullable: False	true if the encounter is closed (if removal_date is in the past)
secondary_diagnosis_icd	string	Optional: Derivable by CDM	https://www.datadictionary.nhs.uk/data_elements/secondary_diagnosis_icd_.html
site	string	Optional: Derivable by CDM	Hospital site name. This column uses the name field from the site table, linked on site_id
site_id	string	Foreign Key: site.id	Hospital site ID
specialty_id	string	Foreign Key: specialty.specialty_id	ID for the specialty which classifies the encounter
specialty_name	string	Optional: Derivable by CDM	Name of the specialty which classifies the encounter. This column uses the specialty_name field from the specialty table, linked on specialty_id
suspected_cancer_pathway	boolean	Optional: Derivable by CDM	Indicates whether the patient is waiting for treatment on a suspected cancer pathway
tc_i_date	date		To Come In date (null if the encounter is unbooked)
tc_i_status	string	Optional: Derivable by CDM	To Come In status of the encounter
title	string	Optional: Derivable by CDM	Encounter title (Specialty, Full Name)
transfer_status	string	Optional: Derivable by CDM	Status of the patient transfer. The value would usually be one of Transferred, null, Rejected, Proposed, Pending Validation
treatment_function_code	string	Optional: Derivable by CDM	Treatment function code which the waitlist entry belongs to
treatment_function_name	string	Optional: Derivable by CDM	Treatment function name which the waitlist entry belongs to
waitlist_code	string		Code identifying the waiting list that the encounter is a member of: https://www.datadictionary.nhs.uk/classes/waiting_list.html
ward	string	Optional: Derivable by CDM	Name of the ward the patient is, or was, staying in, (NULL if patient was never in a ward)

[CDM] Encounter Priority Change Option

Full table name: ccs-encounter-priority-change

Primary Key: id

Description: Trust configuration data: allowed encounter priority values

column	type	notes	description
id	string	Primary Key: id	ID
new_value	string		New priority values which can be set
type	string		Type of priority change (unused)

[CDM] Outpatient Activity

Full table name: outpatient-activity

Primary Key: waiting_list_entry_id

Description: All outpatient activity, either booked or unbooked: <https://www.datadictionary.nhs.uk/classes/activity.html> The minimum scope of outpatient activity should be those that relate to past or present entries on the Outpatient Waiting List

column	type	notes	description
booked_by	string	Optional: Derivable by CDM	The source system user identifier of the individual booker for this activity.
date_added_to_waiting_list	date		Date added to waiting list. This is the date at which an appointment was requested for the activity
days_to_book_within	int	Optional: Derivable by CDM	Number of days within which the patient must be booked in (before the due_date)
days_waiting	int	Optional: Derivable by CDM	Days waiting since added to waiting list
division	string	Optional: Derivable by CDM	A higher level division of specialty e.g. Medicine, Surgery, Women's and Oncology, etc.
due_date	date		Date by which patient should be scheduled for an appointment
earliest_due_date	date		Earliest date the patient can be scheduled for an appointment
encounter_id	string	Foreign Key: encounters.encounter_id	ID of the linked encounter
external_id	string	Optional: Derivable by CDM	An external identifier to help identify the activity in the source system (e.g., FIN Number in Cerner)
full_name	string	Optional: Derivable by CDM	Full Name of Patient
issues	array	Optional: Derivable by CDM	List of patient readiness issues that have been raised on this activity
is_private	boolean	Optional: Derivable by CDM	true if activity is for a private patient
is_referral	boolean		true if activity is an outpatient referral
last_appointment_id	string	Optional: Derivable by CDM	Foreign key linking the activity to the previous/past relevant outpatient appointment

column	type	notes	description
last_cancelled_appointment_id	string	Optional: Derivable by CDM	Foreign key to the previous/past relevant appointment for the activity which has been cancelled
mrn	string	Optional: Derivable by CDM	Patient MRN
new_or_follow_up	string	Optional: Derivable by CDM Values: [New, Follow-Up, Other, null] Severity: WARN	Indicates whether the appointment is a New or Follow-Up appointment
next_appointment_id	string	Optional: Derivable by CDM	Foreign key linking the activity to the next relevant outpatient appointment
next_cancelled_appointment_id	string	Optional: Derivable by CDM	Foreign key to the next relevant appointment for the activity which has been cancelled
outpatient_activity_free_text	string	Optional: Derivable by CDM	Optional data field to denote operational-only scheduling requirements for the activity
pathway_id	string	Foreign Key: patient-pathway.pathway_id	the ID for the pathway the activity is a part of: https://www.datadictionary.nhs.uk/classes/patient_pathway.html
patient_id	string	Foreign Key: patient.person_id	the patient receiving a service
patient_is_on_cancer_pathway	boolean		true if patient is on cancer pathway
primary_care_professional_id	string	Foreign Key: care-professional.care_professional_id	Primary care professional administering the activity
priority	string		The priority of the request for activity: https://www.datadictionary.nhs.uk/classes/activity_priority.html (e.g. Urgent, Routine)
referral_date	date		Date the linked referral was received
referral_id	string	Foreign Key: referral.referral_id	ID of the linked referral
removed	boolean	Optional: Derivable by CDM Nullable: False	true if the record has been removed from the waiting list.
removed_timestamp	timestamp		The date and time of removal from the waiting list
requested_appointment_type	string		Requested appointment type (e.g. Cardiology F/Up, Endocrinology New)
rtt_pathway_status	string	Values: [Non-RTT Pathway, Active RTT Pathway, Inactive RTT Pathway, null] Severity: WARN	Is on active RTT pathway
rtt_period_end_date	date		Date of RTT clock stop

column	type	notes	description
rtt_period_length	int		RTT period length (days)
rtt_period_start_date	date		Date of RTT clock start
rtt_period_status_code	string	Optional: Derivable by CDM	The status code of the RTT Period. https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_statuses.html
site_id	string	Foreign Key: site.id	Hospital site ID
site_name	string	Optional: Derivable by CDM	Hospital site at which the activity will take place
source	string		The source of the activity record (e.g. eRS, PAS)
source_list_name	string	Optional: Derivable by CDM	The name of the source waiting list the entry originates from (e.g. OWL, FOWL)
source_unique_waiting_list_entry_id	string		ID for the waiting list entry used in the original source system
specialty_id	string	Foreign Key: specialty.specialty_id	the main specialty for the activity
specialty_name	string	Optional: Derivable by CDM	Name of main specialty for the activity
status	string	Values: [Due, Past due, Booked, Cancelled, Deferred, Attended, Pending, Removed, Waiting, Scheduled, Did not attend, Pending reschedule, Rejected, No referral status, Complete, Referral, Requested, Call letter sent, Redirect, null] Severity: WARN	Status (e.g. Due, Past Due, Booked, Cancelled, Deferred)
status_updated_at	timestamp	Optional: Derivable by CDM	Captures the time and date when the status of the outpatient activity
title	string	Optional: Derivable by CDM	Activity display title (Full Name, Specialty)
treatment_function_code	string	Optional: Derivable by CDM	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_name	string	Optional: Derivable by CDM	The corresponding name of the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
waiting_list_entry_id	string	Primary Key: waiting_list_entry_id	ID for the outpatient activity

column	type	notes	description
weeks_waiting	int	Optional: Derivable by CDM	Weeks waiting since added to waiting list

[CDM] Patient

Full table name: patient

Primary Key: person_id

Description: A person with a specific disease or condition who received treatment from the trust, or any registrable birth:

<https://www.datadictionary.nhs.uk/classes/patient.html>. The patient table at minimum should contain details on patients who are on the trust Elective Admission List or Outpatient Waiting List, as well as patients who were previously on the Elective Admission List or Outpatient Waiting List but have now been removed. This information is required to support users in identifying patients on waiting lists as well as booking them into theatre sessions.

column	type	notes	description
address_line_1	string		Patient address line 1
address_line_2	string		Patient address line 2
age	bigint	Optional: Derivable by CDM	Patient age (years)
date_of_birth	date		Date of birth
date_of_death	date		Date of death (null if the patient is not deceased)
deceased	boolean	Optional: Derivable by CDM	true if the patient is deceased
first_name	string		First name
full_name	string	Optional: Derivable by CDM	Last Name, First Name
gender_identity	string	Optional: Derivable by CDM Values: [Male, Female, Non-binary, Not stated, Unknown, Other, null] Severity: WARN	The individual's perception of their own gender. In some cases, this may not be the same as the patient's registered birth gender, or their current administrative gender.
mrn	string		Medical record number/hospital number
next_of_kin_name	string	Optional: Derivable by CDM	Next of kin name
next_of_kin_number	string	Optional: Derivable by CDM	Next of kin contact number
nhs_number	string		NHS number, National-level identifier for a patient https://www.datadictionary.nhs.uk/attributes/nhs_number.html
person_id	string	Primary Key: person_id	ID, a unique identifier for each patient
phone_number	string		Patient primary phone number
postcode	string		Patient postcode
registered_gp	string		GP Practice address where the patient is registered

column	type	notes	description
sex	string		Patient Sex (Male/Female/Indeterminate)
surname	string		Surname
title	string		Mode of address for this patient (e.g. (Mr, Mrs, Ms, Dr)

[CDM] Patient Diagnosis

Full table name: patient_diagnosis

Primary Key: diagnosis_id

Description: Contains patient diagnoses related to the in-scope outpatient activity. This is used to allow clinical teams to use diagnoses in patient decision-making and alerting

column	type	notes	description
clinical_status	string	Values: [active, inactive, null] Severity: WARN	This indicates whether the diagnosis is active or inactive.
diagnosis_end_date	date		Date when diagnosis was resolved/in remission. This can be null if the diagnosis is active.
diagnosis_id	string	Primary Key: diagnosis_id	ID for each diagnosis
diagnosis_name	string		Name of diagnosis (e.g. Thyrotoxicosis, Neurofibroma)
diagnosis_start_date	date		Date when diagnosis became active or was coded
encounter_id	string	Foreign Key: encounters.encounter_id	encounter ID at which the diagnosis was created as part of
patient_id	string	Foreign Key: patient.person_id	patient ID for the subject of the diagnosis

[CDM] Patient Pathway

Full table name: patient-pathway

Primary Key: pathway_id

Description: Description: A dataset which contains a record per Patient Pathway (https://www.datadictionary.nhs.uk/classes/patient_pathway.html). This dataset will be used to track linked patient pathways for active RTT Periods. Additionally, this dataset will consist of all patient pathways (even closed) for historical analysis.

column	type	notes	description
admission_method_code	string	Optional: Derivable by CDM	Code corresponding to how the patient was admitted https://www.datadictionary.nhs.uk/data_elements/admission_method_code_hospital_provider_spell.html .
age	bigint	Optional: Derivable by CDM	The age of the patient
consultant_id	string	Foreign Key: care-professional.care_professional_id	ID for the primary consultant responsible for the patient's care.
consultant_name	string	Optional: Derivable by CDM	The name of the primary consultant associated with the RTT pathway
covid_priority	string	Optional: Derivable by CDM	Covid Priority e.g.: 1a,1b,2,3,4
covid_priority_date	date	Optional: Derivable by CDM	Date Covid Priority was entered on WL
date_of_birth	date	Optional: Derivable by CDM	The date of birth of the patient
data_source	string	Optional: Derivable by CDM	Name of the source system this pathway originated from.
directorate	string	Optional: Derivable by CDM	An umbrella category for a team that sits on top of division and speciality.
division	string		A higher level division of specialty e.g. Medicine, Surgery, Women's and Oncology, etc.
dta_date	date	Optional: Derivable by CDM	Decision to admit date.
intended_procedure_description	string	Optional: Derivable by CDM	The description of the intended procedure that the patient needs.
last_appointment	string	Optional: Derivable by CDM	Type of the last appointment that occurred.
last_appointment_date	date	Optional: Derivable by CDM	Date of last patient appointment as an inpatient or outpatient.
last_appointment_description	string	Optional: Derivable by CDM	Description of last patient appointment as an inpatient or outpatient.

column	type	notes	description
last_clinic_letter_date	timestamp	Optional: Derivable by CDM	The date of the last clinic letter for the patient
last_clinic_letter_type	string	Optional: Derivable by CDM	The type of the last clinic letter for the patient
last_test_result_date	timestamp	Optional: Derivable by CDM	The date of the last test result for the patient
last_opa_date	date	Optional: Derivable by CDM	Date of the last outpatient appointment the patient had.
last_opa_outcome	string	Optional: Derivable by CDM	The outcome of the last outpatient appointment the associated patient has attended.
last_pathway_activity	string	Optional: Derivable by CDM	The last activity recorded for the pathway - could be an appointment, a clinic letter, a conversation, etc.
last_pathway_activity_date	date	Optional: Derivable by CDM	The date of the last activity recorded for the pathway
latest_referral_received_date	date	Optional: Derivable by CDM	Date when the latest referral on the pathway was created. This field should ONLY be provided if the referral input dataset is NOT provided. In cases where the referral input dataset is provided, this field should not be provided and instead will be derived.
local_sub_specialty_code	string	Optional: Derivable by CDM	Local sub specialty code https://www.datadictionary.nhs.uk/data_elements/local_sub-specialty_code.html
local_sub_specialty_description	string	Optional: Derivable by CDM	Local sub specialty description https://www.datadictionary.nhs.uk/data_elements/local_sub-specialty_code.html
mrn	string	Optional: Derivable by CDM	The MRN/CRN of the patient
next_appointment	string	Optional: Derivable by CDM	Type of the next appointment that is due to occur.
next_appointment_date	date	Optional: Derivable by CDM	Date of next patient appointment inpatient or outpatient.
next_appointment_description	string	Optional: Derivable by CDM	Description of next patient appointment inpatient or outpatient.
next_appointment_status	string	Optional: Derivable by CDM	Whether the next appointment is dated or undated.
next_diagnostics_date	date	Optional: Derivable by CDM	Date of next diagnostics appointment.

column	type	notes	description
next_opa_date	date	Optional: Derivable by CDM	Date of next outpatient appointment.
nhs_ccg	string		NHS Clinical Commissioning group code https://www.datadictionary.nhs.uk/nhs_business_definitions/clinical_commissioning_group.html
nhs_number	string	Optional: Derivable by CDM	The NHS number of the patient
original_referral_created_date	date	Optional: Derivable by CDM	Date when the original referral on the pathway was created. This field should ONLY be provided if the referral input dataset is NOT provided. In cases where the referral input dataset is provided, this field should not be provided and instead will be derived.
original_referral_priority	string	Optional: Derivable by CDM	The priority of the original referral on the pathway. https://www.datadictionary.nhs.uk/GPDataSet/Referral.html . This field should ONLY be provided if the referral input dataset is NOT provided. In cases where the referral input dataset is provided, this field should not be provided and instead will be derived.
original_referral_received_date	date	Optional: Derivable by CDM	Date when the original referral on the pathway was received in primary care. https://www.datadictionary.nhs.uk/attributes/referral_request_received_date.html . This field should ONLY be provided if the referral input dataset is NOT provided. In cases where the referral input dataset is provided, this field should not be provided and instead will be derived.
original_referral_source	string	Optional: Derivable by CDM	The source (care setting) for the original referral on the pathway. https://www.datadictionary.nhs.uk/GPDataSet/Referral.html . This field should ONLY be provided if the referral input dataset is NOT provided. In cases where the referral input dataset is provided, this field should not be provided and instead will be derived.

column	type	notes	description
original_referral_ubrn	string	Optional: Derivable by CDM	The unique booking reference number of the original referral on the pathway. https://www.datadictionary.nhs.uk/attributes/unique_booking_reference_number_converted_.html . This field should ONLY be provided if the referral input dataset is NOT provided. In cases where the referral input dataset is provided, this field should not be provided and instead will be derived.
owl_clinic_code	string	Optional: Derivable by CDM	Clinic code entered on outpatient waiting list. Can be derived from appointment.
owl_flag	boolean	Optional: Derivable by CDM	Whether the patient is on an outpatient waiting list
owl_group_code	string	Optional: Derivable by CDM	Clinic group code entered on outpatient waiting list. Can be derived from appointment.
pathway_class	string		Indicates whether the pathway is Admitted vs Non-Admitted
pathway_id	string	Primary Key: pathway_id	Primary Key: https://www.datadictionary.nhs.uk/attributes/patient_pathway_identifier.html
pathway_status	string		Whether the pathway is an Active RTT Pathway, an Inactive RTT Pathway or a Non-RTT Pathway
pathway_type	string		Different categories indicating the type of pathway the patient is on
patient_deceased	boolean	Optional: Derivable by CDM	Is the patient deceased
patient_id	string	Foreign Key: patient.person_id	Unique Identifier of the patient.
patient_name	string	Optional: Derivable by CDM	Full name of the patient
site_id	string	Foreign Key: site.id	ID for the hospital site where the patient is receiving care: https://www.datadictionary.nhs.uk/nhs_business_definitions/hospital_site.html
site_name	string	Optional: Derivable by CDM	The name of the hospital site corresponding with the RTT pathway
specialty_id	string	Foreign Key: specialty.specialty_id	Main specialty code https://www.datadictionary.nhs.uk/attributes/main_specialty_code.html

column	type	notes	description
specialty_name	string	Optional: Derivable by CDM	RTT Period specialty name
tc_i_date	date	Optional: Derivable by CDM	Scheduled date for patient to come in. Used in tandem with next_opa_date to determine prospective clock stops.
treatment_function_code	string	Optional: Derivable by CDM	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_name	string	Optional: Derivable by CDM	The corresponding name of the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html

[CDM] Procedure

Full table name: procedure

Primary Key: procedure_id

Description: Information about procedures performed on, or planned to be performed on, a Patient. The procedure list should be limited to procedures that are related to encounters in the encounters table. For more information on procedures, please see

https://www.datadictionary.nhs.uk/nhs_business_definitions/patient_procedure.html. Procedures are used in the applications to provide further information on theatre bookings, such as primary procedure start time, expected length and description. Procedure data is also displayed on patient visualisations so users can see past and upcoming procedures

column	type	notes	description
actual_procedure_time_knife_to_skin_closure	int	Optional: Derivable by CDM	Actual time from knife to skin to skin closure during the procedure (in minutes)
actual_procedure_time_total_theatre_time	int		Actual total theatre time utilised to carry out the procedure (in minutes)
admission_method	string	Optional: Derivable by CDM Values: [Planned, Unplanned, Booked, Waiting List, null] Severity: WARN	Status column to signify if the admission was, or is, planned or unplanned. If the data is restricted to procedures related to elective admission list entries, then this column will only contain "Planned" values. This column uses the admission_method value from the encounters table, linked on encounter_id
anaesthetic_type_to_be_used	string		Which type of anaesthetic (if any) was, or will be, used in the procedure
anaesthetist_required	boolean		true if an anaesthetist is required for this procedure. can be used if not known
encounter_id	string	Foreign Key: encounters.encounter_id	Encounter at which the procedure was, or will be, performed
estimated_procedure_time_knife_to_skin_closure	int	Optional: Derivable by CDM	Estimated time from knife to skin to skin closure during the procedure in minutes
estimated_procedure_time_strategy	string	Optional: Derivable by CDM	Textual description of the strategy used to estimate procedure time
estimated_procedure_time_total_theatre_time	int		Estimated total theatre time utilised to carry out the procedure (in minutes)

column	type	notes	description
expected_length_of_stay	string	Optional: Derivable by CDM	Textual description of the length of time the patient will stay in hospital e.g. "36 Hours", "5 Days"
intended_procedure_code	string		OPCS code of the intended procedure: https://www.datadictionary.nhs.uk/data_elements/primary_procedure__opcs_.html
intended_procedure_description	string		Description of the intended primary procedure
intended_procedure_free_text	string		Free text comments related to the intended primary procedure
is_primary_procedure	boolean	Nullable: False	true if this procedure is the primary procedure of the encounter
patient_id	string	Foreign Key: patient.person_id	ID for the patient on which the procedure was, or will be, performed
primary_consultant_id	string	Foreign Key: care-professional.care_professional_id	ID for the primary consultant performing the procedure
priority	string	Optional: Derivable by CDM	Clinical priority of the linked Encounter (RCS or Urgent, Cancer, Routine). This column uses the priority value from the encounters table, linked on encounter_id
priority_ordered	string	Optional: Derivable by CDM	Ordered priority (used for sorting). This should have the numeric order of the clinical priority appended to the priority string, e.g. 01: urgent. This column uses the priority_ordered value from the encounters table, linked on encounter_id
procedure_date	date		Date of procedure: https://www.datadictionary.nhs.uk/data_elements/procedure_date.html
procedure_id	string	Primary Key: procedure_id	ID for the procedure
procedure_ordered	int	Optional: Derivable by CDM	A ranking of procedures within a specific theatre session by start time (the lowest ranked procedure will appear first)
procedure_time_or_order	string		Start time of procedure using a 24 hour clock in string format (hh:mm:ss) https://www.datadictionary.nhs.uk/nhs_business_definitions/procedure_time.html

column	type	notes	description
theatre_session_id	string	Foreign Key: theatre-session.theatre_session_id	theatre session at which the procedure was, or will be, performed (if booked)
title	string	Optional: Derivable by CDM	A textual title for the procedure. Recommended format is {patient name}: {procedure description}

[CDM] Procedure Status

Full table name: procedure-status

Primary Key: procedure_status_id

Description: Contains a record per procedure, along with metadata that indicates the readiness of each procedure. This information is used to highlight any procedure issues when patients are booked in for treatment, such as the status of Pre-Operative Assessments, COVID swabs and MRSA swabs.

column	type	notes	description
covid_swab_appointment_id	string	Foreign Key: appointment.attendance_id	ID for the COVID swab appointment
covid_swab_attended_datetime	timestamp		Timestamp at which the COVID swab appointment was attended
covid_swab_booked_datetime	timestamp		Timestamp at which the COVID swab appointment was booked
covid_swab_booking_status	string	Values: [Attended, Scheduled, DNA, Cancelled, Unscheduled, null] Severity: WARN	COVID swab appointment booking status
covid_swab_outcome	string		COVID swab appointment outcome
encounter_id	string	Foreign Key: encounters.encounter_id	ID for the encounter related to the procedure
is_primary_procedure	boolean	Nullable: False	true if this procedure is the primary procedure of the encounter
mrsa_swab_appointment_id	string	Foreign Key: appointment.attendance_id	ID for the MRSA swab appointment
mrsa_swab_attended_datetime	timestamp		Timestamp at which the MRSA swab appointment was attended
mrsa_swab_booked_datetime	timestamp		Timestamp at which the MRSA swab appointment was booked
mrsa_swab_booking_status	string	Values: [Attended, Scheduled, DNA, Cancelled, Unscheduled, null] Severity: WARN	MRSA swab booking status
mrsa_swab_outcome	string		MRSA swab appointment outcome
patient_id	string	Foreign Key: patient.person_id	ID for the patient related to the procedure
poa_appointment_id	string	Foreign Key: appointment.attendance_id	ID for the POA appointment related to the procedure
poa_booked_datetime	timestamp		Timestamp at which the POA appointment was booked

column	type	notes	description
poa_booking_status	string	Values: [Attended, Scheduled, DNA, Cancelled, Unscheduled, null] Severity: WARN	The booking status for the POA appointment
poa_ordering	int	Optional: Derivable by CDM	Order of the pre-operative assessment for an encounter. An order of 1 indicates the most recent appointment.
poa_outcome	string		Outcome of POA appointment
poa_outcome_free_text	string		Free text comments relating to POA outcome
poa_scheduled_or_attended_datetime	timestamp		Timestamp at which the POA appointment is scheduled, or was attended
procedure_id	string	Foreign Key: procedure.procedure_id	ID for the procedure
procedure_status_id	string	Primary Key: procedure_status_id	ID, a unique identifier for each record
theatre_booking_id	string	Foreign Key: theatre_booking.theatre_booking_id	ID for the theatre booking event at which the procedure takes place

[CDM] Procedure Type

Full table name: procedure-type

Primary Key: procedure_code

Description: List of available procedures

column	type	notes	description
procedure_code	string	Primary Key: procedure_code	Primary Key: Procedure code
procedure_description	string		Procedure Description

[CDM] Referral

Full table name: referral

Primary Key: referral_id

Description: All referrals: https://www.datadictionary.nhs.uk/classes/referral_request.html The minimum scope of referrals should be those that relate to past or present referrals for outpatient appointments

column	type	notes	description
date_referral_accepted	date		Date referral was accepted by the service/trust
date_referral_created	date	Optional: Derivable by CDM	Date the referral was created.
date_referral_received	date		Date referral was received by the service/trust
days_to_book_within	int	Optional: Derivable by CDM	Number of days within which the patient must be booked in (before the due_date)
days_waiting	int	Optional: Derivable by CDM	Days waiting since the referral was received
due_date	date		Date by which patient should be scheduled for an appointment
earliest_due_date	date		Earliest date the patient can be scheduled for an appointment
full_name	string	Optional: Derivable by CDM	Full Name of Patient
mrn	string	Optional: Derivable by CDM	Patient MRN
pathway_id	array	Foreign Key: patient-pathway.pathway_id	The ID of the pathway the referral is linked to: https://www.datadictionary.nhs.uk/classes/patient_pathway.html . Note: a single pathway ID is expected but there is the option to provide more than one pathway ID in the case of data quality issues resulting in more than one pathway being linked to a referral.
patient_id	string	Foreign Key: patient.person_id	the patient receiving a service
patient_is_on_cancer_pathway	boolean		true if patient is on cancer pathway
primary_care_professional_id	string	Foreign Key: care-professional.care_professional_id	Primary care professional assigned to the referral

column	type	notes	description
priority	string		The priority of the referral request: https://www.datadictionary.nhs.uk/classes/activity_priority.html (e.g. Urgent, Routine)
referral_id	string	Primary Key: referral_id Foreign Key: referral.referral_id	ID for the referral
referral_notes	string	Optional: Derivable by CDM	Accompanying notes sent alongside the referral
referral_source	string	Optional: Derivable by CDM	The source of referral of each Consultant Out-Patient Episode. https://www.datadictionary.nhs.uk/attributes/source_of_referral_for_out-patients.html
removed	boolean	Optional: Derivable by CDM Nullable: False	true if the record has been removed.
removed_timestamp	timestamp		The date and time of removal
requested_appointment_type	string		Requested appointment type (e.g. Cardiology F/Up, Endocrinology New) for the referral
rtt_pathway_status	string	Values: [Non-RTT Pathway, Active RTT Pathway, Inactive RTT Pathway, null] Severity: WARN	Is on active RTT pathway
rtt_period_end_date	date		Date of RTT clock stop
rtt_period_length	int		RTT period length (days)
rtt_period_start_date	date		Date of RTT clock start
site_id	string	Foreign Key: site.id	Hospital site ID
site_name	string	Optional: Derivable by CDM	Hospital site for the referral
source	string		The source of the activity record (e.g. eRS, PAS)
source_unique_id	string		ID for the referral used in the original source system
specialty_id	string	Foreign Key: specialty.specialty_id	the main specialty for the referral
specialty_name	string	Optional: Derivable by CDM	Name of main specialty for the referral
status	string	Values: [Accepted, Due, Past due, Open, Closed, Deferred, Rejected, Complete, Removed, Waiting, Awaiting triage, No referral status, Referral, Requested, Call letter sent, Redirect, null] Severity: WARN	Status (e.g. Accepted, Rejected, Open, Awaiting Triage)

column	type	notes	description
title	string	Optional: Derivable by CDM	Referral display title (Full Name, Specialty)
ubrn	string	Optional: Derivable by CDM	The unique booking reference number of the referral. https://www.datadictionary.nhs.uk/attributes/unique_booking_reference_number__converted_.html
weeks_waiting	int	Optional: Derivable by CDM	Weeks waiting since the referral was received
service_id	string	Foreign Key: ers-service.service_id Optional: Derivable by CDM	ID of the eRS service under which the referral was received
service_name	string	Optional: Derivable by CDM	Name of the eRS service under which the referral was received
service_type	string	Optional: Derivable by CDM	Type of the eRS service under which the referral was received

[CDM] Site

Full table name: site

Primary Key: id

Description: Hospital Site: https://www.datadictionary.nhs.uk/nhs_business_definitions/hospital_site.html. Site information is required to allow users to filter waiting lists and theatre sessions by hospital site.

column	type	notes	description
id	string	Primary Key: id	Primary Key: Site ID https://www.datadictionary.nhs.uk/attributes/organisation_site_identifier.html
name	string	Nullable: False	Site Name: https://www.datadictionary.nhs.uk/attributes/organisation_site_name.html

[CDM] Specialty

Full table name: specialty

Primary Key: specialty_id

Description: A reference dataset which contains a record per specialty and treatment function. This is derived from the following NHS Data Dictionary class: https://www.datadictionary.nhs.uk/supporting_information/main_specialty_and_treatment_function_codes_table.html. Specialty and treatment function information is required to allow application users to filter data so that they only view data relevant to them.

column	type	notes	description
is_active_specialty	boolean	Nullable: False	true if this is currently an active specialty at this trust
specialty_id	string	Primary Key: specialty_id	ID for the specialty/treatment function. This should match the codes listed in the NHS Data Dictionary: https://www.datadictionary.nhs.uk/supporting_information/main_specialty_and_treatment_function_codes_table.html
specialty_name	string		Textual description of the specialty/treatment function. This should match the descriptions listed in the NHS Data Dictionary: https://www.datadictionary.nhs.uk/supporting_information/main_specialty_and_treatment_function_codes_table.html
theatre_specialty	boolean		true if the specialty requires theatre sessions at this trust

[CDM] Staff Unavailability

Full table name: staff-unavailability

Primary Key: id

Description: Dataset to capture unavailability of primary consultants.

column	type	notes	description
care_professional_id	string	Foreign Key: care-professional.care_professional_id	id of the care professional
date_of_leave	date	Optional: Derivable by CDM Nullable: False	Date on which the care professional is on leave
hours	bigint	Optional: Derivable by CDM	Total length of leave requested
id	string	Primary Key: id	Primary Key: Id for the row
leave_end_time	timestamp	Optional: Derivable by CDM	Time till which the care professional is unavailable on the date_of_leave date
leave_start_time	timestamp	Nullable: False	Time from which the care professional is unavailable on the date_of_leave date
leave_state	string		Specifies whether leave is requested or confirmed.
notes	string		Note describing the type of leave, example: Study Leave, Annual Leave, On Call
title	string	Optional: Derivable by CDM	Descriptive title formed by concatenating few important columns

[CDM] Test Result

Full table name: test_results

Primary Key: test_result_id

Description: Tests and test results ('clinical investigations') related to the in-scope outpatient activity. This is used to allow clinical teams to use test results in their patient decision-making and alerting. For OPTICA, only Covid test results are needed for current and past admissions.

column	type	notes	description
attendance_id	string	Foreign Key: appointment.attendance_id Optional: Derivable by CDM	Attendance ID at which the test was performed
expiry_date	timestamp	Optional: Derivable by CDM	Date of test expiry. This can be null if the test has no expiry date.
ordering_specialty_name	string	Optional: Derivable by CDM	Specialty for the linked appointment
patient_id	string	Foreign Key: patient.person_id	patient ID for the subject of the test
test_date	timestamp		Date the test was taken
test_id	string	Optional: Derivable by CDM	Standardised test code. This can be either SNOMED or ICD10.
test_name	string		String name of test (e.g. Free T4 Level, blood or Platelet count, blood, Covid). Only Covid test results are needed for OPTICA, and must be called "Covid positive".
test_result_id	string	Primary Key: test_result_id	ID for the test result
test_value_type	string	Optional: Derivable by CDM Values: [DoubleType, StringType, null] Severity: WARN	Indicates the data type of the test result value
unit	string	Optional: Derivable by CDM	Unit of measurement for the value of the test (e.g. mL/L)
value	string		Value of test result (e.g. 102, Target not detected, positive/negative). Must be a Yes/No for OPTICA.
value_double	double	Optional: Derivable by CDM	Double version of value

[CDM] Theatre Booking

Full table name: theatre_booking

Primary Key: theatre_booking_id

Description: Contains theatre booking event information relating to encounters listed in the Encounters table. Theatre booking information is used to support users in booking patients into available theatre sessions and managing the readiness of upcoming theatre sessions

column	type	notes	description
adjusted_expected_duration	bigint	Optional: Derivable by CDM	Granular calculated expected duration for the booking, i.e. average duration per procedure for given specialty or clinician
anaesthetic_type_to_be_used	string	Optional: Derivable by CDM	Which type of anaesthetic (if any) was, or will be, used in the procedure
booking_cancelled	boolean	Optional: Derivable by CDM	true if the booking_status is "Cancelled", false otherwise.
cancellation_date	date	Optional: Derivable by CDM	The date on which the booking was cancelled
cancellation_reason	string		Textual reason for the cancellation of theatre booking
cancellation_reason_free_text	string	Optional: Derivable by CDM	Additional free text coming from the theatres system regarding a cancellation
cancelled_otd	boolean	Optional: Derivable by CDM	Flag to show whether the cancellation occurred on the theatre session date. if the booking status is inconsistent with the cancellation date.
critical_care_bed_status	string	Optional: Derivable by CDM Values: [Requested, Allocated, Request Rejected, Not Required, null] Severity: WARN	Identifies the status of a critical care bed if a patient requires it. Derived from the encounter
datetime_booked	timestamp		Timestamp when booking was created
eal_id	string	Foreign Key: eal-entry.eal_id	ID for the EAL entry that the booking is created for
encounter_id	string	Foreign Key: encounters.encounter_id	ID for the encounter the booking is created for
expected_duration	bigint		Expected duration of booking in minutes

column	type	notes	description
full_name	string	Optional: Derivable by CDM	Full name for the patient associated with the booking. This column uses the full_name value from the patient table, linked on patient_id
intended_management_code	string	Optional: Derivable by CDM Values: [1, 2, 3, 4, 5, 8, 9,null] Severity: WARN	https://www.datadictionary.nhs.uk/attributes/intended_management.html . Derived from the Encounter
intended_management_description	string	Optional: Derivable by CDM	Textual description of the intended management. Derived from the intended_management_code, per https://www.datadictionary.nhs.uk/attributes/intended_management.html
intended_primary_procedure_anaesthetic_type_to_be_used	string	Optional: Derivable by CDM	Which type of anaesthetic (if any) was, or will be, used in the primary procedure
intended_primary_procedure_anaesthetist_required	boolean	Optional: Derivable by CDM	true if anaesthetist is required for intended primary procedure
intended_primary_procedure_description	string	Optional: Derivable by CDM	Textual description of the intended primary procedure to be carried out within this booking. This column uses the intended_primary_procedure_description value from the procedure table, linked on primary_procedure_id
intended_primary_procedure_free_text	string	Optional: Derivable by CDM	Free text comments related to the linked primary procedure. This column uses the intended_primary_procedure_description value from the procedure table, linked on primary_procedure_id
last_poa_outcome_free_text	string	Optional: Derivable by CDM	Free text comments relating to POA outcome
mrn	string	Optional: Derivable by CDM	MRN for the patient associated with the booking. This column uses the mrn value from the patient table, linked on patient_id
patient_id	string	Foreign Key: patient.person_id	ID for the patient booked in
post_op_bed_required	boolean	Optional: Derivable by CDM	true if a bed is required post operation for the patient
primary_consultant_id	string	Foreign Key: care-professional.care_professional_id	ID for the primary consultant associated to the theatre session

column	type	notes	description
primary_consultant_name	string	Optional: Derivable by CDM	Name of the primary consultant allocated to the theatre booking
primary_procedure_id	string	Foreign Key: procedure.procedure_id	ID for the primary procedure the booking is created for
primary_procedure_start_time_or_order	string	Optional: Derivable by CDM	Primary procedure start datetime in string format (yyyy-MM-dd hh:mm:ss). This is used for sorting bookings within a theatre session on the front end. This column uses the procedure_time_or_order value from the procedure table, linked on primary_procedure_id
priority	string	Optional: Derivable by CDM	Clinical priority of the linked Encounter (RCS or Urgent, Cancer, Routine). This column uses the priority value from the encounters table, linked on encounter_id
risk_description	string	Optional: Derivable by CDM	Textual description of the risk for patients flagged as high or medium risk in the risk_rating field
risk_rating	string	Values: [High Risk, Medium Risk, Low Risk, null] Severity: WARN	Categorisation of the patient risk for this booking. The booking will be flagged to users in the front end if this value is "High Risk"
rtt_pathway_id	string	Optional: Derivable by CDM	RTT pathway ID: https://www.datadictionary.nhs.uk/classes/patient_pathway.html . Derived from EAL
status	string	Values: [Booked, Cancelled, Requested, Provisional, Confirmed, DNA, Attended, Rescheduled, null] Severity: WARN	Booking status of the theatre booking
status_render	string	Optional: Derivable by CDM Values: [Red, Green, Yellow, Pink, Teal, Blue, null] Severity: FAIL	Colour render that is applied to the status column value in the front end
theatre_booking_id	string	Primary Key: theatre_booking_id	ID for the theatre booking event
theatre_session_date	date	Optional: Derivable by CDM	Date of theatre session the booking is assigned to. Derived using theatre_Session_id.

column	type	notes	description
theatre_session_id	string	Foreign Key: theatre-session.theatre_session_id	ID for the theatre session the booking has been created in

[CDM] Theatre Session

Full table name: theatre-session

Primary Key: theatre_session_id

Description: Theatre session; an allocation of theatre time to a surgeon to perform procedures:

https://www.datadictionary.nhs.uk/nhs_business_definitions/operating_theatre_session.html Theatre session information is used to support users in booking patients into available theatre sessions and managing the readiness of upcoming theatre sessions

column	type	notes	description
actual_utilisation	double		Actual session utilisation ratio, defined as (actual utilised time / available time).
actual_utilisation_status	string	Optional: Derivable by CDM Values: [Red, Green, Yellow, Orange, Pink, Teal, Blue, Grey, null] Severity: WARN	Used to specify colour rendering for the actual_utilisation value in frontend applications. Default values (> 1.0 Blue
actual_utilised_minutes	int	Optional: Derivable by CDM	Actual session utilisation duration
adjusted_booked_utilisation	double	Optional: Derivable by CDM	Adjusted booked utilisation percentage, defined as (time booked / time available taking into account turnaround time between patients)
adjusted_booked_utilisation_status	string	Optional: Derivable by CDM Values: [Red, Green, Yellow, Orange, Pink, Teal, Blue, Grey, null] Severity: WARN	Used to specify colour rendering for the adjusted_booked_utilisation value in front-end applications. Default values (> 1.0 Blue
adjusted_duration_minutes	int	Optional: Derivable by CDM	Used to derive adjusted_booked_utilisation by dividing by planned_session_time
am_pm	string	Optional: Derivable by CDM	Session duration block (AM/PM/AD)
anaesthetic_types	array	Optional: Derivable by CDM	Contains the concatenation of which type of anaesthetics used in the session
anaesthetist_ids	array		Array of all IDs for anaesthetists assigned to the session
anaesthetist_names	array	Optional: Derivable by CDM	Array of all names for anaesthetists assigned to the session. This column uses the name field from the care-professional table, linked on anaesthetist_ids
anaesthetist_required	boolean	Optional: Derivable by CDM	true if an anaesthetist is required for the session

column	type	notes	description
booked_minutes	int	Optional: Derivable by CDM	Minutes within the session allocated to booked patients
booked_utilisation	double	Optional: Derivable by CDM	Booked utilisation ratio, defined as (minutes booked / total minutes available)
booked_utilisation_status	string	Optional: Derivable by CDM Values: [Red, Green, Yellow, Orange, Pink, Teal, Blue, Grey, null] Severity: WARN	Used to specify colour rendering for the booked_utilisation value in frontend applications. Default values (> 1.0 Blue
booking_cancellations_total_count	int	Optional: Derivable by CDM	The total number of booking cancellations for this session
booking_cancellations_on_the_day_count	int	Optional: Derivable by CDM	The total number of booking cancellations for this session on the day or the day before
cancelled	boolean	Optional: Derivable by CDM	true if the status field has the value "Cancelled"
comments	array		Comments on theatre session for scheduling purposes
consultant_ids	array	Optional: Derivable by CDM	Array of all IDs for consultants assigned to the session
consultant_names	array	Optional: Derivable by CDM	Array of all names for consultants assigned to the session. This column uses the name field from the care-professional table, linked on consultant_ids
consultant_unavailability_reason	string	Optional: Derivable by CDM	Reason/type of leave if the primary consultant is on leave, otherwise null
consultant_unavailable	boolean	Optional: Derivable by CDM	true if the primary consultant assigned to the session has an annual leave event during the session
consultant_leave_status	string	Optional: Derivable by CDM	Annual leave status of the primary consultant on the session
count_beds_required	bigint	Optional: Derivable by CDM	Count of the (post-op) beds required for bookings in the theatre session. Derived from the intended management of the bookings. Does not take into account bookings with a status of Cancelled or Rescheduled

column	type	notes	description
count_critical_care_beds_required	bigint	Optional: Derivable by CDM	Count of the critical care beds required for bookings in the theatre session. Does not take into account bookings with a status of Cancelled or Rescheduled
count_of_bookings	bigint	Optional: Derivable by CDM	Count of booked patients, not including bookings with a status of Cancelled or Rescheduled
date	date	Optional: Derivable by CDM	Date of theatre session: https://www.datadictionary.nhs.uk/attributes/session_date.html
day_of_week	string	Optional: Derivable by CDM Values: [Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, null] Severity: WARN	Day of the week of the theatre session
day_of_week_index	int	Optional: Derivable by CDM	Index of the day of the week of the theatre session where Monday is 1
day_of_week_ordered	string	Optional: Derivable by CDM	Day of the week of the theatre session prepended with the index for ordering, e.g., where Monday is 1 - Monday
double_booked_consultant	boolean	Optional: Derivable by CDM	true if the primary consultant is double booked. This can be derived by counting the number of sessions for each consultant during the same timeslot
double_booked_theatre	boolean	Optional: Derivable by CDM	true if the theatre is double booked. This can be derived by counting the number of sessions in each theatre during the same timeslot
duration_minutes	int	Optional: Derivable by CDM	Theatre session length in minutes
end_time	timestamp		Theatre session actual end time
exclude_from_poa	boolean	Optional: Derivable by CDM	true if this session should not be displayed in front end applications designed to support Pre-Operative Assessment management
exclude_from_theatre_scheduling	boolean	Optional: Derivable by CDM	true if the session should not be displayed in front end applications designed to support theatre management

column	type	notes	description
list_type	string	Values: [Elective, Non-Elective, null] Severity: WARN	Type of theatre session (Elective, Non-Elective)
mnemonic	string	Optional: Derivable by CDM	Theatre session mnemonic (abbreviation used by the planned care team to identify the slot). This can be a custom value for each trust
mnemonic_short	string	Optional: Derivable by CDM	Shortened slot mnemonic
planned_duration_minutes	int	Optional: Derivable by CDM	Theatre session planned length in minutes
planned_end_time	timestamp		Theatre session planned end time
planned_session_minutes	int	Optional: Derivable by CDM	Minutes within the session allocated to booked patients, prior to the day of the session
planned_session_utilisation	double	Optional: Derivable by CDM	Planned utilisation ratio, defined as (planned session minutes / total minutes available)
planned_start_time	timestamp		Theatre session planned start time
pooled_list	boolean		true if this is a pooled patient waiting list, shared between multiple surgeons
primary_anaesthetist_id	string	Foreign Key: care-professional.care_professional_id	ID for the primary anaesthetist allocated to the theatre session
primary_anaesthetist_name	string	Optional: Derivable by CDM	Name of the primary anaesthetist allocated to the theatre session. This column uses the name field from the care-professional table, linked on primary_anaesthetist_id
primary_consultant_id	string	Foreign Key: care-professional.care_professional_id	ID for the primary surgeon allocated to the theatre session
primary_consultant_name	string	Optional: Derivable by CDM	Name of the primary surgeon allocated to the theatre session. This column uses the name value from the care-professional table, linked on primary_consultant_id
short_display_name	string	Optional: Derivable by CDM	Contains concatenation of anaesthetic type, utilisation and primary consultant name
site	string	Optional: Derivable by CDM	Hospital site where the operating theatre is located. This column uses the name field from the site table, linked on site_id

column	type	notes	description
site_id	string	Foreign Key: site.id	ID for the hospital site where the operating theatre is located: https://www.datadictionary.nhs.uk/nhs_business_definitions/hospital_site.html
sort_key	string	Optional: Derivable by CDM	concatination of properties that can be used to customize the sorting of sessions in frontend applications
specialty_id	string	Foreign Key: specialty.specialty_id	Specialty assigned for the session
specialty_name	string	Optional: Derivable by CDM	Name of the specialty assigned to the session. This column uses the specialty_name field from the specialty table, linked on specialty_id
start_time	timestamp		Theatre session actual start time
status	string	Values: [On Offer, Cancelled, Active, Taken - different surgeon/specialty, null] Severity: WARN	The current status of the theatre session
stretched_end_time	timestamp	Optional: Derivable by CDM	Planned end time mapping for calendar module
stretched_start_time	timestamp	Optional: Derivable by CDM	Planned start time mapping for calendar module
theatre_id	string		ID for the operating theatre the session will take place in
theatre_name	string		Name of the operating theatre in which the session will occur: https://www.datadictionary.nhs.uk/classes/operating_theatre.html
theatre_session_id	string	Primary Key: theatre_session_id	ID for the theatre session
theatre_type	string		Textual description of the theatre type (Main Theatre, Treatment Centre, Paediatric Theatre, Other)
unbooked_minutes	int	Optional: Derivable by CDM	Minutes within the session that are unallocated
unbooked_minutes_status	string	Optional: Derivable by CDM Values: [Red, Yellow, Green, Grey, null] Severity: WARN	Used to specify which colour the unbooked_minutes value is displayed as in the front-end. Default values (< 0 Blue
usable_unbooked_minutes	int		Usable booked minutes (e.g. removing turnaround time between patients)

column	type	notes	description
week_delta	int	Optional: Derivable by CDM	Number of weeks difference from date to the current week (negative if date is in the past)
week_delta_string	string	Optional: Derivable by CDM	Textual description of the week delta (e.g. Week 10)
week_delta_string_details	string	Optional: Derivable by CDM	Textual description of the week delta with date (e.g. Week 10: 01-01-2022)

[CDM] Theatre Session Comment

Full table name: ccs-theatre-session-comment

Primary Key: comment_id

Description: Comments on theatre sessions.

column	type	notes	description
comment_id	string	Primary Key: comment_id	ID of the comment
theatre-session-id	string	Foreign Key: theatre-session.theatre_session_id	ID of the theatre session
comment_text	string		String text of comment
comment_timestamp	timestamp		Timestamp at creation of comment
comment_user	string		Multipass user id of user creating comment
reason	string		Reason why comment was left
tags	array		Tags on the comment
status	string		Status of the comment

[CDM] URL

Full table name: ccs-url-link

Primary Key: url_id

Description: Trust configuration data: allowed URL link values which can be referenced in front-end applications

column	type	notes	description
ur_locator	string		URL
url_id	string	Primary Key: url_id	ID

[CDM] User Preference

Full table name: ccs-user-preferences

Primary Key: user_id

Description: User preferences dataset

column	type	notes	description
default_consultants	array		consultant
default_role	string		Default user role
default_sites	array		site
default_specialties	array		Foregin key: specialty
notification_channels	array		notification channel
receive_changelog_request_notifications	boolean		Opt in to receive changelog request notifications
receive_scheduling_notifications	boolean		Opt in to receive scheduling notifications
receive_scheduling_update_notifications	boolean		Opt in to receive notifications when an update is made to a scheduling request the user has created
receive_theatre_management_notifications	boolean		Opt in to receive scheduling notifications
user_id	string	Primary Key: user_id	multipass user id

[CDM] Validated Change Log Comment

Full table name: ccs-validated-changelog-comment

Primary Key: comment_id

Description: Comments on validated changelogs.

column	type	notes	description
comment_id	string	Primary Key: comment_id	ID of the comment
change_log_id	string		ID of the validated changelog
comment_text	string		String text of comment
comment_timestamp	timestamp		Timestamp at creation of comment
comment_user	string		Multipass user id of user creating comment
comment_markdown	string		Markdown version of free text comment
task_action	string		Action taken when creating comment