

Data Input Specification

Version 111

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Table: appointment

Full table name: ccs-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	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL	The duration booked for the appointment (minutes): https://www.datadictionary.nhs.uk/data_elements/expected_duration_of_appointment.html
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: ccs-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.
date_time_booked	timestamp		Date and time the appointment was booked: https://www.datadictionary.nhs.uk/attributes/service_request_date.html

column	type	notes	description
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: ccs-patient-v2.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		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: ccs-specialty.specialty_id	The specialty ID related to the appointment
specialty_name	string	Derived: OPTIONAL	The specialty related to the appointment
start_date_time	timestamp		Appointment start date and time: https://www.datadictionary.nhs.uk/data_elements/appointment_date_and_time.html

column	type	notes	description
treatment_function_code	string	Derived: OPTIONAL_NULL	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_name	string	Derived: OPTIONAL_NULL	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)
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: care_professional

Full table name: ccs-care-professional-v2

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	Derived: OPTIONAL	list of specialty names the care professional is responsible for
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: dataset_refresh_times

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: [ccs_theatre_booking, ccs-encounters-v2, ccs-patient-v2, ccs-eal-v2, ccs-procedure, ccs-theatre-session-v2, unbooked_patients, ccs-appointment, ccs-outpatient-activity, ccs-clinic, ccs-referral, ccs-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

Table: encounters

Full table name: ccs-encounters-v2

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	Derived: OPTIONAL_NULL 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	Derived: OPTIONAL_NULL	Sub category of admission status
admission_type	string	Derived: OPTIONAL_NULL 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	Derived: OPTIONAL	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	Derived: OPTIONAL_NULL 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	Derived: OPTIONAL_NULL 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	Derived: OPTIONAL_NULL	https://datadictionary.nhs.uk/data_elements/disease_outbreak_notification_description.html
disease_outbreak_notification_snomed_ct	string	Derived: OPTIONAL_NULL	https://datadictionary.nhs.uk/data_elements/disease_outbreak_notification_snomed_ct.html
eal_id	string	Foreign Key: ccs-eal-v2.eal_id	ID for the corresponding EAL entry: https://www.datadictionary.nhs.uk/classes/elective_admission_list_entry.html
encounter_free_text	string	Derived: OPTIONAL_NULL	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 time in theatre in minutes
external_id	string	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL	true if patient has a TCI date in the future
has_tci	boolean	Derived: OPTIONAL	true if tci_date is not null

column	type	notes	description
hospital_provider_spell_identifier	string	Derived: OPTIONAL_NULL	https://www.datadictionary.nhs.uk/data_elements/hospital_provider_spell_identifier.html
intended_management_code	string	Derived: OPTIONAL_NULL Values: [1, 2, 3, 4, 5, 8, 9, null] Severity: WARN	https://www.datadictionary.nhs.uk/attributes/intended_management.html
intended_primary_procedure_anaesthetic_type	string	Derived: OPTIONAL	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 ccs-procedure table, linked on encounter_id
intended_primary_procedure_anaesthetist_required	boolean	Derived: OPTIONAL	true if anaesthetist is required for intended primary procedure
intended_primary_procedure_code	string	Derived: OPTIONAL	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 ccs-procedure table, linked on encounter_id
intended_primary_procedure_description	string	Derived: OPTIONAL	Description of the intended primary procedure. This column uses the intended_procedure_description value from the primary procedure linked to this encounter in the ccs-procedure table, linked on encounter_id
intended_primary_procedure_free_text	string	Derived: OPTIONAL	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 ccs-procedure table, linked on encounter_id
intended_primary_procedure_free_text_long	string	Derived: OPTIONAL	Full textual description of intended primary procedure
is_booked	boolean	Nullable: False	true if patient is booked in for treatment

column	type	notes	description
is_metric_encounter	boolean	Derived: OPTIONAL_NULL	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
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	Derived: OPTIONAL_NULL	https://www.datadictionary.nhs.uk/classes/local_sub-specialty.html
most_recent_booking_status	string	Derived: OPTIONAL Values: [Booked, Not Booked, Cancelled, null] Severity: WARN	Status of most recent theatre booking
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	Derived: OPTIONAL	The number of times the patient has had a cancelled theatre booking for this encounter
patient_id	string	Foreign Key: ccs-patient-v2.person_id	ID for the patient requiring treatment
patient_name	string	Derived: OPTIONAL	Full patient name (Surname, Firstname). This column uses the full_name value from the ccs-patient-v2 table, linked on patient_id
pathway_id	string		RTT pathway ID: https://www.datadictionary.nhs.uk/classes/patient_pathway.html
peri_op_risk_stratification_outcome	string	Derived: OPTIONAL_NULL	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

column	type	notes	description
primary_consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	ID for the primary consultant who is responsible for the encounter
primary_consultant_name	string	Derived: OPTIONAL	Name of the primary consultant who is responsible for the encounter. This column uses the name value from the ccs-care-professional-v2 table, linked on primary_consultant_id
primary_diagnosis_icd	string	Derived: OPTIONAL_NULL	https://www.datadictionary.nhs.uk/data_elements/primary_diagnosis_icd_.html
primary_procedure_opcs	string	Derived: OPTIONAL_NULL	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 ccs-procedure table, linked on encounter_id
primary_procedure_type	string	Derived: OPTIONAL	Type of the primary procedure. This column uses the procedure_type value from the primary procedure linked to this encounter in the ccs-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	Derived: OPTIONAL_NULL 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

column	type	notes	description
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
removed	boolean	Derived: OPTIONAL Nullable: False	true if the encounter is closed (if removal_date is in the past)
secondary_diagnosis_icd	string	Derived: OPTIONAL_NULL	https://www.datadictionary.nhs.uk/data_elements/secondary_diagnosis_icd.html
site	string	Derived: OPTIONAL	Hospital site name. This column uses the name field from the ccs-site table, linked on site_id
site_id	string	Foreign Key: ccs-site.id	Hospital site ID
specialty_id	string	Foreign Key: ccs-specialty.specialty_id	ID for the specialty which classifies the encounter
specialty_name	string	Derived: OPTIONAL	Name of the specialty which classifies the encounter. This column uses the specialty_name field from the ccs-specialty table, linked on specialty_id
suspected_cancer_pathway	boolean	Derived: OPTIONAL_NULL	Indicates whether the patient is waiting for treatment on a suspected cancer pathway
tci_date	date		To Come In date (null if the encounter is unbooked)
tci_status	string	Derived: OPTIONAL_NULL	To Come In status of the encounter
title	string	Derived: OPTIONAL	Encounter title (Specialty, Full Name)
transfer_status	string	Derived: OPTIONAL_NULL	Status of the patient transfer. The value would usually be one of Transferred, null, Rejected, Proposed, Pending Validation
treatment_function_code	string	Derived: OPTIONAL_NULL	Treatment function code which the waitlist entry belongs to
treatment_function_name	string	Derived: OPTIONAL_NULL	Treatment function name which the waitlist entry belongs to

column	type	notes	description
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	Derived: OPTIONAL_NULL	Name of the ward the patient is, or was, staying in, (NULL if patient was never in a ward)
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: outpatient_activity

Full table name: ccs-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
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	Derived: OPTIONAL	Number of days within which the patient must be booked in (before the due_date)
days_waiting	int	Derived: OPTIONAL	Days waiting since added to waiting list
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: ccs-encounters-v2.encounter_id	ID of the linked encounter
external_id	string	Derived: OPTIONAL_NULL	An external identifier to help identify the activity in the source system (e.g., FIN Number in Cerner)
full_name	string	Derived: OPTIONAL	Full Name of Patient
is_private	boolean	Derived: OPTIONAL_NULL	true if activity is for a private patient
is_referral	boolean		true if activity is an outpatient referral
mrn	string	Derived: OPTIONAL	Patient MRN
new_or_follow_up	string	Derived: OPTIONAL_NULL Values: [New, Follow-Up, Other, null] Severity: WARN	Indicates whether the appointment is a New or Follow-Up appointment
outpatient_activity_free_text	string	Derived: OPTIONAL_NULL	Optional data field to denote operational-only scheduling requirements for the activity
pathway_id	string	Foreign Key: __dataset.__key	the ID for the pathway the activity is a part of: https://www.datadictionary.nhs.uk/classes/patient_pathway.html

column	type	notes	description
patient_id	string	Foreign Key: ccs-patient-v2.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: ccs-care-professional-v2.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		ID of the linked referral
removed	boolean	Derived: OPTIONAL 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
rtt_period_length	int		RTT period length (days)
rtt_period_start_date	date		Date of RTT clock start
rtt_period_status_code	string	Derived: OPTIONAL_NULL	The status code of the RTT Period. https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_statuses.html
site_id	string	Foreign Key: ccs-site.id	Hospital site ID
site_name	string	Derived: OPTIONAL	Hospital site at which the activity will take place
source	string		The source of the activity record (e.g. eRS, PAS)
source_unique_waiting_list_entry_id	string		ID for the waiting list entry used in the original source system
specialty_id	string	Foreign Key: ccs-specialty.specialty_id	the main specialty for the activity
specialty_name	string	Derived: OPTIONAL	Name of main specialty for the activity

column	type	notes	description
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)
title	string	Derived: OPTIONAL	Activity display title (Full Name, Specialty)
treatment_function_code	string	Derived: OPTIONAL_NULL	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_name	string	Derived: OPTIONAL_NULL	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
weeks_waiting	int	Derived: OPTIONAL	Weeks waiting since added to waiting list
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: patient

Full table name: ccs-patient-v2

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	Derived: OPTIONAL	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	Derived: OPTIONAL	true if the patient is deceased
first_name	string		First name
full_name	string	Derived: OPTIONAL	Last Name, First Name
gender_identity	string	Derived: OPTIONAL_NULL 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	Derived: OPTIONAL_NULL	Next of kin name
next_of_kin_number	string	Derived: OPTIONAL_NULL	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)
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: referral

Full table name: ccs-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	Derived: OPTIONAL_NULL	Date the referral was created.
date_referral_received	date		Date referral was received by the service/trust
days_to_book_within	int	Derived: OPTIONAL	Number of days within which the patient must be booked in (before the due_date)
days_waiting	int	Derived: OPTIONAL	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	Derived: OPTIONAL	Full Name of Patient
mrn	string	Derived: OPTIONAL	Patient MRN
pathway_id	string	Foreign Key: __dataset.__key	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: ccs-patient-v2.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: ccs-care-professional-v2.care_professional_id	Primary care professional assigned to the referral
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	ID for the referral

column	type	notes	description
referral_notes	string	Derived: OPTIONAL_NULL	Accompanying notes sent alongside the referral
referral_source	string	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL 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: ccs-site.id	Hospital site ID
site_name	string	Derived: OPTIONAL	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: ccs-specialty.specialty_id	the main specialty for the referral
specialty_name	string	Derived: OPTIONAL	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)
title	string	Derived: OPTIONAL	Referral display title (Full Name, Specialty)

column	type	notes	description
ubrn	string	Derived: OPTIONAL_NULL	The unique booking reference number of the referral. https://www.datadictionary.nhs.uk/attributes/unique_booking_reference_number__converted_.html
weeks_waiting	int	Derived: OPTIONAL	Weeks waiting since the referral was received
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: site

Full table name: ccs-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
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: theatre_booking

Full table name: ccs_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	Derived: OPTIONAL	Granular calculated expected duration for the booking, i.e. average duration per procedure for given specialty or clinician
cancellation_date	date	Derived: OPTIONAL_NULL	The date on which the booking was cancelled
cancellation_reason	string		Textual reason for the cancellation of theatre booking
cancellation_reason_free_text	string	Derived: OPTIONAL_NULL	Additional free text coming from the theatres system regarding a cancellation
datetime_booked	timestamp		Timestamp when booking was created
eal_id	string	Foreign Key: ccs-eal-v2.eal_id	ID for the EAL entry that the booking is created for
encounter_id	string	Foreign Key: ccs-encounters-v2.encounter_id	ID for the encounter the booking is created for
expected_duration	bigint		Expected duration of booking in minutes
full_name	string	Derived: OPTIONAL	Full name for the patient associated with the booking. This column uses the full_name value from the ccs-patient-v2 table, linked on patient_id
intended_primary_procedure_anaesthetist_required	boolean	Derived: OPTIONAL	true if anaesthetist is required for intended primary procedure
intended_primary_procedure_description	string	Derived: OPTIONAL	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 ccs-procedure table, linked on primary_procedure_id

column	type	notes	description
intended_primary_procedure_free_text	string	Derived: OPTIONAL	Free text comments related to the linked primary procedure. This column uses the intended_primary_procedure_description value from the ccs-procedure table, linked on primary_procedure_id
mrn	string	Derived: OPTIONAL	MRN for the patient associated with the booking. This column uses the mrn value from the ccs-patient-v2 table, linked on patient_id
patient_id	string	Foreign Key: ccs-patient-v2.person_id	ID for the patient booked in
post_op_bed_required	boolean	Derived: OPTIONAL	true if a bed is required post operation for the patient
primary_consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	ID for the primary consultant associated to the theatre session
primary_procedure_id	string	Foreign Key: ccs-procedure.procedure_id	ID for the primary procedure the booking is created for
primary_procedure_start_time_or_order	string	Derived: OPTIONAL	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 ccs-procedure table, linked on primary_procedure_id
priority	string	Derived: OPTIONAL	Clinical priority of the linked Encounter (RCS or Urgent, Cancer, Routine). This column uses the priority value from the ccs-encounters-v2 table, linked on encounter_id
risk_description	string	Derived: OPTIONAL_NULL	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"
status	string	Values: [Booked, Cancelled, Requested, Provisional, Confirmed, DNA, Attended, Rescheduled, null] Severity: WARN	Booking status of the theatre booking

column	type	notes	description
status_render	string	Derived: OPTIONAL 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_id	string	Foreign Key: ccs-theatre-session-v2.theatre_session_id	ID for the theatre session the booking has been created in
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: test_results

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: ccs-appointment.attendance_id Derived: OPTIONAL_NULL	Attendance ID at which the test was performed
expiry_date	timestamp	Derived: OPTIONAL_NULL	Date of test expiry. This can be null if the test has no expiry date.
patient_id	string	Foreign Key: ccs-patient-v2.person_id	patient ID for the subject of the test
test_date	timestamp		Date the test was taken
test_id	string	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL_NULL Values: [DoubleType, StringType, null] Severity: WARN	Indicates the data type of the test result value
unit	string	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL	Double version of value
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.

column	type	notes	description
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: patient_pathway

Full table name: ccs-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	Derived: OPTIONAL	Code corresponding to how the patient was admitted https://www.datadictionary.nhs.uk/data_elements/admission_method_code_hospital_provider_spell.html .
consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	ID for the primary consultant responsible for the patient's care.
covid_priority	string		Covid Priority e.g.: 1a,1b,2,3,4
covid_priority_date	date		Date Covid Priority was entered on WL
division	string		A higher level division of specialty e.g. Medicine, Surgery, Women's and Oncology, etc.
dta_date	date		Decision to admit date.
local_sub_specialty_code	string		Local sub specialty code https://www.datadictionary.nhs.uk/data_elements/local_sub-specialty_code.html
local_sub_specialty_description	string		Local sub specialty description https://www.datadictionary.nhs.uk/data_elements/local_sub-specialty_code.html
nhs_ccg	string		NHS Clinical Commissioning group code https://www.datadictionary.nhs.uk/nhs_business_definitions/clinical_commissioning_group.html
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

column	type	notes	description
pathway_type	string		Different categories indicating the type of pathway the patient is on
patient_id	string	Foreign Key: ccs-patient-v2.person_id	Unique Identifier of the patient.
referral_date	date	Derived: OPTIONAL	Date when the referral of the RTT period was created.
referral_id	string	Foreign Key: ccs-referral.referral_id	Unique identifier of the referral linked to this RTT Period.
referral_notes	string	Derived: OPTIONAL	Free text notes from the referral of the RTT period.
referral_priority	string	Derived: OPTIONAL	The priority of the referral. https://www.datadictionary.nhs.uk/GPDa taSet/Referral.html
referral_received_date	date	Derived: OPTIONAL	Date when the referral of the RTT period was received in primary care. https://www.datadictionary.nhs.uk/attrib utes/referral_request_received_date.ht ml
referral_source	string	Derived: OPTIONAL	The source (care setting) for the referral. https://www.datadictionary.nhs.uk/GPDa taSet/Referral.html
site_id	string	Foreign Key: ccs-site.id	ID for the hospital site where the patient is receiving care: https://www.datadictionary.nhs.uk/nhs_b usiness_definitions/hospital_site.html
specialty_id	string	Foreign Key: ccs-specialty.specialty_id	Main specialty code https://www.datadictionary.nhs.uk/attrib utes/main_specialty_code.html
treatment_function_code	string		A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attrib utes/treatment_function_code.html
treatment_function_name	string		The corresponding name of the treatment function. https://www.datadictionary.nhs.uk/attrib utes/treatment_function_code.html
ubrn	string	Derived: OPTIONAL	The unique booking reference number of the referral. https://www.datadictionary.nhs.uk/attrib utes/unique_booking_reference_number _converted_.html

column	type	notes	description
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: 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: ccs-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	Derived: OPTIONAL_NULL	Type of clinic letter
consultant_id	string		Consultant who wrote the letter
patient_id	string		Patient the letter relates to
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: rtt_period

Full table name: rtt-period

Primary Key: rtt_period_id

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

column	type	notes	description
active_pathway_flag	boolean		Whether the RTT period is active or not.
last_pathway_activity	string	Derived: OPTIONAL_NULL	The last activity recorded for the pathway - could be an appointment, a clinic letter, a conversation, etc.
last_pathway_activity_date	date	Derived: OPTIONAL_NULL	The date of the last activity recorded for the pathway
nhs_ccg	string	Derived: OPTIONAL	NHS Clinical Commissioning group code https://www.datadictionary.nhs.uk/business_definitions/clinical_commissioning_group.html
pathway_class	string	Derived: OPTIONAL	Whether the patient is admitted or non-admitted takes values: "Admitted", "Non-admitted"
pathway_id	string	Foreign Key: ccs-patient-pathway.pathway_id	The unique identifier of the RTT pathway that corresponds to this RTT period. https://www.datadictionary.nhs.uk/attributes/patient_pathway_identifier.html
pathway_type	string	Derived: OPTIONAL	An auxiliary column for providing further grouping information of the pathway e.g. 2A - Not Dated
patient_id	string	Foreign Key: ccs-patient-v2.person_id Derived: OPTIONAL	Unique Identifier of the patient.
period_end_date	date	Derived: OPTIONAL_NULL	Clock stop for the RTT Period
period_end_reason	string	Derived: OPTIONAL_NULL	The reason for the clock stop of the RTT Period. https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_statuses.html
period_start_date	date		Clock start for the RTT Period

column	type	notes	description
period_start_reason	string		The reason for the clock start of the RTT Period. https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_statuses.html
referral_id	string	Foreign Key: ccs-referral.referral_id Derived: OPTIONAL	Unique identifier of the referral linked to this RTT Period.
rtt_episode_id	string		The episode in the RTT pathway that corresponds to the RTT period. This is to make distinctions between multiple clock stops/starts/restarts for a RTT pathway.
rtt_period_id	string	Primary Key: rtt_period_id	Primary key for the RTT Period, this must be unique and non-null. A combination of the pathway ID, episode ID or referral ID, episode ID is recommended.
status_code	string		The status code of the RTT Period. https://www.datadictionary.nhs.uk/attributes/referral_to_treatment_period_statuses.html
tc_i_date	date	Derived: OPTIONAL	Scheduled date for patient to come in. Used in tandem with next_opa_date to determine prospective clock stops.
treatment_function_code	string	Derived: OPTIONAL	A unique identifier for the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
treatment_function_name	string	Derived: OPTIONAL	The corresponding name of the treatment function. https://www.datadictionary.nhs.uk/attributes/treatment_function_code.html
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset

Table: rtt_validation_event

Full table name: rtt-validation-event

Primary Key: rtt_validation_event_id

Description: Validation event of the RTT Periods. These are to combine the previous source of validation comments with the new source that is the RTT Validation tool.

column	type	notes	description
action	string	Derived: OPTIONAL_NULL	The next action needing to happen on the patient's pathway.
action_outcome_pair_id	string	Derived: OPTIONAL_NULL	Unique identifier to the action outcome pair of the task. (This is only needed if you want to generate tasks from the historical comments or provide better historical analysis).
breach_reason	string	Derived: OPTIONAL_NULL	The breach reason that was chosen at the time of comment creation. Can be left blank for historical comments.
breach_reason_id	string	Derived: OPTIONAL_NULL	The ID of the breach reason.
comment	string		The content of the validation event
created_at	timestamp		When the validation event was created
created_by	string	Derived: OPTIONAL_NULL	The user ID who created the validation event. Can be left blank for historical comments.
created_by_name	string		The name of the person who created the validation event
outcome	string	Derived: OPTIONAL_NULL	The result of the current validation.
outcome_group	string	Derived: OPTIONAL_NULL	The outcome group that this column falls in [Pathway Closure, Confirmed Waiter, Other]
re_review_date	date	Derived: OPTIONAL_NULL	The date to be reviewed. Should be left empty.
rtt_period_id	string	Foreign Key: rtt-period.rtt_period_id	Unique identifier the RTT Period this event corresponds to.
rtt_validation_event_id	string	Primary Key: rtt_validation_event_id	Unique identifier for a validation event.
updated_at	timestamp	Derived: OPTIONAL_NULL	When the validation validation-event was last updated

column	type	notes	description
updated_by	string	Derived: OPTIONAL_NULL	The user ID of the last person to update the validation event.
updated_by_name	string	Derived: OPTIONAL_NULL	The name of the last person to update the validation event.
updated_by_team	string	Derived: OPTIONAL_NULL	The team of the last person to update the validation event.
validity	string		The validity of the validation event. Should always be valid for new validation events
rv_modules	array	Derived: OPTIONAL	Ontology modules used to derive group_ids. The default (recommended) values are the modules associated with the dataset.
rv_group_ids	array	Derived: OPTIONAL	Designed to be used in group-based restricted view policies. The default values are derived from rv_modules and the restricted-view-policy dataset