

Data Input Specification

Version 115.1

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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: eal

Full table name: ccs-eal-v2

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	Derived: OPTIONAL	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	Derived: OPTIONAL	Defines if this is an active RTT pathway as per the rtt_pathway_status
patient_id	string	Foreign Key: ccs-patient-v2.person_id	ID for the patient related to the elective admission list entry
patient_name	string	Derived: OPTIONAL	Patient name (Surname, First name). This column uses the full_name value from the ccs-patient-v2 table, linked on patient_id
planned_date	date		Planned admission date
priority	string	Derived: OPTIONAL	Clinical priority of the entry (RCS or Urgent, Cancer, Routine). This column uses the priority value from the ccs-encounters-v2 table, linked on encounter_id
removal_date	date	Derived: OPTIONAL	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 ccs-encounters-v2 table, linked on encounter_id

column	type	notes	description
removal_reason	string	Derived: OPTIONAL	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 ccs-encounters-v2 table, linked on encounter_id
removal_reason_code	string	Derived: OPTIONAL	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 ccs-encounters-v2 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		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	Derived: OPTIONAL	Date at which the patient will breach more than 104 weeks waiting
rtt_period_18_week_breach_date	date	Derived: OPTIONAL	Date at which the patient will breach more than 18 weeks waiting
rtt_period_52_week_breach_date	date	Derived: OPTIONAL	Date at which the patient will breach more than 52 weeks waiting
rtt_period_78_week_breach_date	date	Derived: OPTIONAL	Date at which the patient will breach more than 78 weeks waiting
rtt_period_days_to_104_week_breach	int	Derived: OPTIONAL	Number of days until patient breaches 104 weeks waiting
rtt_period_days_to_18_week_breach	int	Derived: OPTIONAL	Days until 18 week wait breach date
rtt_period_days_to_52_week_breach	int	Derived: OPTIONAL	Days until 52 week wait breach date
rtt_period_days_to_78_week_breach	int	Derived: OPTIONAL	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		RTT period ID: https://www.datadictionary.nhs.uk/classes/referral_to_treatment_period.html
rtt_period_is_42_week_waiter	boolean	Derived: OPTIONAL	Has been waiting more than 42 weeks, so likely to breach
rtt_period_is_42_week_waiter_string	string	Derived: OPTIONAL Values: [Yes, No, null] Severity: WARN	Stringified rtt_period_is_42_week_waiter
rtt_period_is_68_week_waiter	boolean	Derived: OPTIONAL	true if patient has been waiting for more than 68 weeks
rtt_period_is_68_week_waiter_string	string	Derived: OPTIONAL 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	Derived: OPTIONAL	true if patient has been waiting for more than 94 weeks
rtt_period_is_94_week_waiter_string	string	Derived: OPTIONAL Values: [Yes, No, null] Severity: WARN	Stringified version of if patient has been waiting for more than 94 weeks
rtt_period_length	int	Derived: OPTIONAL	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	Derived: OPTIONAL	Banded version of rtt_period_weeks_waiting, e.g. 00-06WW
rtt_period_weeks_waiting	int	Derived: OPTIONAL	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	Derived: OPTIONAL	Title of EAL entry (Specialty: Surname, Firstname)
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: 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
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		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
primary_consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	ID for the primary consultant who is responsible for the encounter

column	type	notes	description
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
removal_reason	string		String description of closure reason: https://www.datadictionary.nhs.uk/data_elements/elective_admission_list_removal_reason_code.html

column	type	notes	description
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
waitlist_code	string		Code identifying the waiting list that the encounter is a member of: https://www.datadictionary.nhs.uk/classes/waiting_list.html

column	type	notes	description
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: 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: procedure

Full table name: ccs-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 ccs-encounters-v2 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	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL 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 ccs-encounters-v2 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: ccs-encounters-v2.encounter_id	Encounter at which the procedure was, or will be, performed
estimated_procedure_time_knife_to_skin_closure	int	Derived: OPTIONAL_NULL	Estimated time from knife to skin to skin closure during the procedure in minutes
estimated_procedure_time_strategy	string	Derived: OPTIONAL_NULL	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	Derived: OPTIONAL_NULL	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: ccs-patient-v2.person_id	ID for the patient on which the procedure was, or will be, performed
primary_consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	ID for the primary consultant performing the procedure
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
priority_ordered	string	Derived: OPTIONAL	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 ccs-encounters-v2 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	Derived: OPTIONAL	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: ccs-theatre-session-v2.theatre_session_id	theatre session at which the procedure was, or will be, performed (if booked)
title	string	Derived: OPTIONAL	A textual title for the procedure. Recommended format is {patient name}: {procedure 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: procedure_status

Full table name: ccs-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: ccs-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: ccs-encounters-v2.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: ccs-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: ccs-patient-v2.person_id	ID for the patient related to the procedure
poa_appointment_id	string	Foreign Key: ccs-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	Derived: OPTIONAL	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: ccs-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: ccs_theatre_booking.theatre_booking_id	ID for the theatre booking event at which the procedure takes place
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: specialty

Full table name: ccs-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
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: staffing_absence_day_object

Full table name: ccs-staffing-absence-day-object

Primary Key: id

Description: Dataset to capture unavailability of primary consultants.

column	type	notes	description
care_professional_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	id of the care professional
date_of_leave	date	Derived: OPTIONAL Nullable: False	Date on which the care professional is on leave
hours	bigint	Derived: OPTIONAL_NULL	Total length of leave requested
id	string	Primary Key: id	Primary Key: Id for the row
leave_end_time	timestamp	Derived: OPTIONAL	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	Derived: OPTIONAL	Descriptive title formed by concatenating few important columns
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_session

Full table name: ccs-theatre-session-v2

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	Derived: OPTIONAL 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	Derived: OPTIONAL	Actual session utilisation duration
adjusted_booked_utilisation	double	Derived: OPTIONAL	Adjusted booked utilisation percentage, defined as (time booked / time available taking into account turnaround time between patients)
adjusted_booked_utilisation_status	string	Derived: OPTIONAL 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	Derived: OPTIONAL	Used to derive adjusted_booked_utilisationby dividing by planned_session_time
am_pm	string	Derived: OPTIONAL	Session duration block (AM/PM/AD)
anaesthetist_ids	array		Array of all IDs for anaesthetists assigned to the session
anaesthetist_names	array	Derived: OPTIONAL	Array of all names for anaesthetists assigned to the session. This column uses the name field from the ccs-care-professional-v2 table, linked on anaesthetist_ids
anaesthetist_required	boolean	Derived: OPTIONAL	true if an anaesthetist is required for the session
booked_minutes	int	Derived: OPTIONAL	Minutes within the session allocated to booked patients

column	type	notes	description
booked_utilisation	double	Derived: OPTIONAL	Booked utilisation ratio, defined as (minutes booked / total minutes available)
booked_utilisation_status	string	Derived: OPTIONAL 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
cancelled	boolean	Derived: OPTIONAL	true if the status field has the value "Cancelled"
comments	array		Comments on theatre session for scheduling purposes
consultant_ids	array	Derived: OPTIONAL	Array of all IDs for consultants assigned to the session
consultant_unavailability_reason	string	Derived: OPTIONAL	Reason/type of leave if the primary consultant is on leave, otherwise null
consultant_unavailable	boolean	Derived: OPTIONAL	true if the primary consultant assigned to the session has an annual leave event during the session
consultant_leave_status	string	Derived: OPTIONAL	Annual leave status of the primary consultant on the session
count_of_bookings	bigint	Derived: OPTIONAL	Count of booked patients, not including bookings with a status of Cancelled or Rescheduled
date	date	Derived: OPTIONAL	Date of theatre session: https://www.datadictionary.nhs.uk/attributes/session_date.html
day_of_week	string	Derived: OPTIONAL Values: [Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, null] Severity: WARN	Day of the week of the theatre session
double_booked_consultant	boolean	Derived: OPTIONAL	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	Derived: OPTIONAL	true if the theatre is double booked. This can be derived by counting the number of sessions in each theatre during the same timeslot

column	type	notes	description
duration_minutes	int	Derived: OPTIONAL	Theatre session length in minutes
end_time	timestamp		Theatre session actual end time
exclude_from_poa	boolean	Derived: OPTIONAL_NULL	true if this session should not be displayed in front end applications designed to support Pre-Operative Assessment management
exclude_from_theatre_scheduling	boolean	Derived: OPTIONAL_NULL	true if the session should not be displayed in front end applications designed to support theatre management
list_type	string	Values: [Elective, Non-Elective, null] Severity: WARN	Type of theatre session (Elective, Non-Elective)
mnemonic	string	Derived: OPTIONAL	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	Derived: OPTIONAL	Shortened slot mnemonic
planned_duration_minutes	int	Derived: OPTIONAL	Theatre session planned length in minutes
planned_end_time	timestamp		Theatre session planned end time
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: ccs-care-professional-v2.care_professional_id	ID for the primary anaesthetist allocated to the theatre session
primary_anaesthetist_name	string	Derived: OPTIONAL	Name of the primary anaesthetist allocated to the theatre session. This column uses the name field from the ccs-care-professional-v2 table, linked on primary_anaesthetist_id
primary_consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	ID for the primary surgeon allocated to the theatre session
primary_consultant_name	string	Derived: OPTIONAL	Name of the primary surgeon allocated to the theatre session. This column uses the name value from the ccs-care-professional-v2 table, linked on primary_consultant_id

column	type	notes	description
short_display_name	string	Derived: OPTIONAL	Contains concatenation of anaesthetic type, utilisation and primary consultant name
site	string	Derived: OPTIONAL	Hospital site where the operating theatre is located. This column uses the name field from the ccs-site table, linked on site_id
site_id	string	Foreign Key: ccs-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	Derived: OPTIONAL	concatination of properties that can be used to customize the sorting of sessions in frontend applications
specialty_id	string	Foreign Key: ccs-specialty.specialty_id	Specialty assigned for the session
specialty_name	string	Derived: OPTIONAL	Name of the specialty assigned to the session. This column uses the specialty_name field from the ccs-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
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	Derived: OPTIONAL	Minutes within the session that are unallocated
unbooked_minutes_status	string	Derived: OPTIONAL 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

column	type	notes	description
usable_unbooked_minutes	int		Usable booked minutes (e.g. removing turnaround time between patients)
week_delta	int	Derived: OPTIONAL	Number of weeks difference from date to the current week (negative if date is in the past)
week_delta_string	string	Derived: OPTIONAL	Textual description of the week delta (e.g. Week 10)
week_delta_string_details	string	Derived: OPTIONAL	Textual description of the week delta with date (e.g. Week 10: 01-01-2022)
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: tempo_estimated_durations

Full table name: tempo-estimated-durations

Primary Key: theatre_booking_id

Description: Actual procedure durations for historical theatre bookings. The derived columns with estimated procedure times in this dataset will be calculated in the Ontology logic using the TEMPO methodology.

column	type	notes	description
actual_anaesthetic_time	int		The anaesthetic time for historical theatre bookings
actual_operation_time	int		The operation time for historical theatre bookings
actual_procedure_code	string	Foreign Key: ccs-encounters-v2.intended_primary_procedure_code	Procedure code for each estimation
consultant_id	string	Foreign Key: ccs-care-professional-v2.care_professional_id	Consultant ID attached to each estimated theatre time
theatre_booking_id	string	Primary Key: theatre_booking_id Foreign Key: ccs_theatre_booking.theatre_booking_id	ID for the theatre booking event
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