



National Radiotherapy Dataset (RTDS) Data Dictionary (set 21)

Version 4.1

Date: 26 March 2021



Documentation Control Sheet

Over time, it may be necessary to issue amendments or clarifications to parts of this document. This form must be updated whenever changes are made.

Version	Summary of Change	Prepared By	Reviewed By
1.0	Initial draft	Rachael Williams	Eleanor Yelland
2.0	Modified	Helen Booth	Eleanor Yelland
3.0	Modified	Sonia Coton	Eleanor Yelland
4.0	Modified	Hilary Shepherd	Eleanor Yelland
4.1	Modified	Hilary Shepherd	Susan Hodgson

Version 1.0

- First version for set 16

Version 2.0

- Updated for set 17

Version 3.0

- Updated for set 18

Version 4.0

- Updated for set 19

Version 4.1

- Updated for set 21
- Removed radiotherapyepisodeid, radiotherapyfieldid.and orgcodeprovider.
- Added DOIs

National Radiotherapy Dataset Data Dictionary

The Radiotherapy Data Set (RTDS) standard (SCCI0111) is an existing standard that has required all NHS Acute Trust providers of radiotherapy services in England to collect and submit standardised data monthly against a nationally defined data set since 2009. The purpose of the standard is to collect consistent and comparable data across all NHS Acute Trust providers of radiotherapy services in England in order to provide intelligence for service planning, commissioning, clinical practice and research and the operational provision of radiotherapy services across England.

Inclusions

All radiotherapy of the following types:

- Teletherapy
- Brachytherapy given using automated remote after loading machines
- All other brachytherapy given for the treatment of malignant disease delivered in England to patients in NHS facilities, or in private facilities where delivery is funded by the NHS, from 1st April 2009.

Exclusions

- Brachytherapy delivered using other than automated remote after loading, for the treatment of non-malignant disease
- Radiotherapy delivered using unsealed sources
- Radiotherapy delivered outside of England
- Radiotherapy delivered in a non-NHS setting and not funded by the NHS
- Non-therapeutic exposures delivered using a radiotherapy machines (e.g. imaging)
- Non-patient exposures (e.g. dosimetry exposures, blood or tissues, animals)

Radiotherapy episodes

A radiotherapy episode is a continuous period of care for radiotherapy (from start to finish) including all preparation, planning and delivery of treatment as covered in the treatment intention. Treatment given concurrently or consecutively to multiple anatomical sites associated with the same primary tumour will form part of the same radiotherapy episode. If the treatment plan changes during treatment (e.g. because a new symptom arises which also requires radiotherapy) then all the treatment delivered concurrently or consecutively will form part of the same episode. Treatment given to separate unrelated primary tumour sites will form separate episodes.

DOI

Please cite in any publications using these data:

CPRD GOLD RTDS August 2021 - <https://doi.org/10.48329/74nr-h920>

CPRD Aurum RTDS August 2021 - <https://doi.org/10.48329/hs74-2d25>

1. Radiotherapy Episode

Variable	Variable name	Description	Field type	Valid Content
CPRD patient identifier	e_patid	Unique patient identifier in CPRD	ID	Number
CR patient identifier	e_cr_patid	Unique patient identifier based on NCRAS data	ID	Number
Appointment identifier	attendid	Identifier for each radiotherapy appointment (use alongside patid for unique combination)	ID	Maximum length 12
Appointment date	apptdate	Date when the patient is to be seen by care professional	DATE	ddmmyyyy
Appointment month	appt_mm	Month of appointment	TEXT	mm
Appointment year	appt_yyyy	Year of appointment	TEXT	yyyy
Decision to treat date	decisiontotreatdate	Date on which it was decided that the patient required specific planned cancer treatment. This is the date that the consultation between the patient and the clinician took place and planned cancer treatment was agreed.	DATE	ddmmyyyy
Decision to treat (month)	dttd_mm	Month of start of radiotherapy treatment episode	TEXT	mm
Decision to treat (year)	dttd_yyyy	Year of start of radiotherapy treatment episode	TEXT	yyyy
Earliest clinically appropriate date (ECAD)	earliestclinappropriatedate	This is the first date that the patient would have been available to start radiotherapy. The same as the DECISION TO TREAT DATE unless there was an elective delay, i.e. a clinical reason, such as the patient was not fit.	DATE	ddmmyyyy
Earliest clinically appropriate date (month)	earliestclinappropriatedate_mm	Month portion of earliestclinicalappropriatedate	TEXT	mm
Earliest clinically	earliestclinappropriatedate	Year portion of earliestclinicalappropriatedate	TEXT	yyyy

appropriate date (year)	_yyyy			
Radiotherapy priority	radiotherapypriority	The priority for this course of therapy as classified by the requesting clinician	TEXT	E = Emergency (treatment required within 24 hours), U = Urgent (including the Royal College of Radiologists Category I), R = Routine (including the Royal College of Radiologists Category II), D = Delay
Radiotherapy treatment start date	treatmentstartdate	The start of a stay, an episode, period covered by a plan or other time period. This may be used to calculate the length of the period, or to classify by financial year or other time-based criterion.	DATE	ddmmyyyy
Radiotherapy treatment start (month)	rtsd_mm	Month of start of radiotherapy treatment episode. Derived from treatmentstartdate.	TEXT	mm
Radiotherapy treatment start (year)	rtsd_yyyy	Year of start of radiotherapy treatment episode. Derived from treatmentstartdate.	TEXT	yyyy
Radiotherapy diagnosis (ICD-10 code)	radiotherapydiagnosisicd	The primary tumour diagnosis code of patients with cancer, or the main condition being treated during the episode of radiotherapy for non-cancer diagnoses	TEXT	TEXT
Radiotherapy treatment intent	radiotherapyintent	Intent of the delivered beam radiation	TEXT	01 = Palliative, 02 = Anti-cancer (radical), 03 = Other

2. Radiotherapy Prescription

Variable	Variable name	Description	Field type	Valid Content
CR patient identifier	e_cr_patid	Unique patient identifier based on NCRAS data	ID	Number
Radiotherapy prescription identifier	prescriptionid	A unique identifier for each radiotherapy prescription	ID	Maximum length 50
Radiotherapy treatment region	rttreatmentregion	The specific area to be treated with radiotherapy.	TEXT	The specific area to be treated with radiotherapy. P = Primary PR = Primary and Regional nodes R = Regional nodes A = Non-anatomically specific primary site O = Prophylactic M = Mets
Radiotherapy anatomical treatment site	rttreatmentanatomicalsite	The part of the body to which the radiotherapy actual dose is administered. Only complete where the treatment region is A, O or M. OPCS Z codes	TEXT	Maximum length 4
Number of teletherapy fields	numberofteletherapyfields	Prescribed number of fields of a teletherapy treatment course	NUMBER	Maximum length 2
Radiotherapy prescribed dose	rtprescribeddose	Total prescribed absorbed radiation dose in Grays.	NUMBER	Maximum length 3.2
Prescribed number of fractions	prescribedfractions	Prescribed number of fractions or hyperfractionation of a teletherapy treatment course administered.	NUMBER	Maximum length 3
Radiotherapy actual dose	rtactualdose	The total actual absorbed radiation dose given in Grays (Gy). This variable may be omitted from all but the ultimate fraction for this prescription.	NUMBER	Maximum length 3.2
Actual number of fractions	rtactualfractions	Total number of fractions of hyperfractionation of a teletherapy treatment course administered. This variable may be omitted from all but the ultimate fraction for this	NUMBER	Maximum length 3

		prescription.		
Radiotherapy treatment modality	rttreatmentmodality	Type of treatment delivered during a radiotherapy prescription	TEXT	05 = Teletherapy, 06 = Brachytherapy

3. Radiotherapy Exposures

Variable	Variable name	Description	Field Type	Valid Content
CR patient identifier	e_cr_patid	Unique patient identifier based on NCRAS data	ID	Number
Attendance identifier	attendid	Identifier for each radiotherapy appointment (use alongside patid for unique combination)	ID	Maximum length 12
Machine identifier	machineid	Pseudonymised code ascribed to the radiotherapy equipment used to treat this exposure. The original identifier is made up of: (a) five character NACs site code (Rxxxx), (b) two character equipment type code (LA/CO/KV/OT), (c) four digit unique sequence number (issued by RTDS). This version is pseudonymised.	TEXT	Maximum length 12
Radioactive isotope	radioisotope	The type of radioactive source used to deliver radiotherapy with brachytherapy. Records the isotope in standard scientific notation (e.g. I123 or Ir192)	TEXT	Maximum length 6
Radiotherapy beam type	radiotherapybeamtype	Prescribed type of beam of a teletherapy treatment course. Note T4-T7 were retired 1 April 2014.	TEXT	T1 = Photons T2 = Electrons T3 = Other
Radiotherapy beam energy	radiotherapybeamenergy	Beam energy in MeV/MV/MVp. Records kVp energies as decimals (e.g. 250kV = 0.25MV). Only for multi-modality machines	NUMBER	Maximum length 3.3
Time of radiotherapy exposure	timeofexposure	Time when the exposure was initiated	TIME	HH:MM:SS

4. OPCDS

Variable	Variable name	Description	Field Type	Valid Content
CR patient identifier	e_cr_patid	Unique patient identifier based on NCRAS data	ID	Number
Attendance identifier	attendid	Identifier for each radiotherapy appointment (use alongside patid for unique combination)	ID	Maximum length 12
Primary procedure (OPCS)	primaryprocedureopcs	Procedure carried and recorded for CDS or HES purposes	TEXT	Maximum length 4
Procedure date	proceduredate	Date of the occurrence of the clinical intervention	DATE	ddmmyyyy
Procedure date (month)	procedure_mm	Month of the occurrence of the clinical intervention. Derived from proceduredate.	TEXT	mm
Procedure date (year)	procedure_yyyy	Year of the occurrence of the clinical intervention. Derived from proceduredate.	TEXT	yyyy