

Summary

This document describes the datasets included in project 1718-0026 (approved by the Public Benefit Privacy Panel for Health and Social Care in October 2018). This is a linked dataset of Scottish CRC patients for the period 2006-2018.

At present, storage and access to this data is limited to the named researchers on the project within Scotland and within the agreed time frame for the storage of the data.

In what follows is a description of some of the key CRC Scottish datasets alongside an overview of the variables included in them. All data sets are ready to be linked to one another through a unique patient ID.

Data Profiles:

Scottish Cancer Registry (SMR06)

This dataset includes information on all new diagnoses of cancer occurring within Scotland. These data are collected by Public Health Scotland and contain diagnostic, staging and treatment information on all cancers, including every colorectal and anal cancer diagnosed in Scotland. The SMR06 data is routinely linked with NRS deaths data and hospital admissions data as part of the Information Services Division linked data catalogue. The CORECT-R Scotland database contains the SMR06 records for all patients who had a diagnosis of colorectal cancer between January 2006 and December 2018. All SMR06 records for non-colorectal cancer diagnoses are included if the patient also had a non-colorectal cancer diagnosis during the study period.

Data Summary

Data Provider	Public Health Scotland
Temporality of the data	<i>January 2006 – December 2018</i>
Geographical extent	Scotland
Data tables	Patient
Further information and data dictionary	https://www.isdscotland.org/Health-Topics/Cancer/Scottish-Cancer-Registry/Cancer-Metadata/docs/SMR06-Current-Dataset-from-20190101.pdf

National Records of Scotland (NRS) Deaths

The NRS are responsible for the registration of all life events occurring in Scotland including births, deaths, marriages, civil partnerships and adoptions. They are also responsible for Scottish census. The vital events deaths data set contains information on deaths including the leading cause of death, other causes of death, place of death, duration of illness and much more. For the purposes of the CORECT-R Scotland data, deaths data were collected for any CRC patient who died throughout the study period (2006-2019).

Data Summary

Data Provider	National Records of Scotland
Temporality of the data	<i>January 2006 – August 2019</i>
Geographical extent	Scotland
Data tables	NRS Vital Events- Deaths
Further information and data dictionary	https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/deaths https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/deaths/deaths-background-information

Scottish Morbidity Records (SMR)

The Scottish Morbidity Records (SMR) contain healthcare data for individual patients. There are four main SMR series for the general types of healthcare received during an episode and/or the nature or status of the patient. Those are outpatient attendance (SMR00), general/acute inpatient and day case (SMR01), maternity inpatient and day case (SMR02) and mental health inpatient and day case (SMR04).

The largest of the SMR series, the SMR01 database, contains episode level data for all general/acute inpatient or day cases in Scottish NHS hospitals or Scottish NHS beds in non-NHS-institutions. An SMR01 record is generated for an inpatient or day case for the following reasons: when they are admitted to an NHS hospital from a location external to the NHS; when they are admitted to a contracted NHS bed in a non-NHS-institution; when they change speciality; when they transfer from another NHS hospital; when they change consultant but not specialty. Further, an SMR01 record is generated when an inpatient moves into and/or out of one of the valid significant facilities and when they return to hospital after been on pass for more than 5 days.

The Scottish CORECT-R linked data set contains all concurrent and historic (from January 1997) SMR01 records for patients who had a colorectal cancer diagnosis during the study period (January 2006-December 2018) as identified from the SMR06 registry.

Data Summary

Data Provider	Public Health Scotland
Temporality of the data	<i>January 1997-August 2019</i>
Geographical extent	Scotland
Data tables	SMR01- General/acute inpatient and day case
Further information	https://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=S&ID=460&Title=SMR01%20-%20General/Acute%20Inpatient%20and%20Day%20Case/
Data dictionaries	https://www.ndc.scot.nhs.uk/Data-Dictionary/SMR-Datasets//SMR01-General-Acute-Inpatient-and-Day-Case/

Chemocare

Chemocare data is held separately by the three regional cancer networks in Scotland. Those are the South East Cancer Network (SCAN), West of Scotland Cancer Network (WoSCAN) and the North of Scotland Cancer Network (NoSCAN). Each network uses the Chemocare system to electronically record chemotherapy prescribing information for all cancer patients treated within their respective cancer network. This includes information on the patient including their height and weight, the drugs and doses prescribed, regimens etc.

The Chemocare information in the Scottish CORECT-R is limited to only those individuals who have had a diagnosis of colorectal or anal cancer between January 2013 and June 2019. These records can be linked to all other datasets held in the Scottish CORECT-R. Given that Chemocare is more up to date than the records held in SMR06, Chemocare may contain patients who are not present in the SMR06 registry. Moreover, there are some differences in the recording of data between the three cancer networks. Where this is the case, this is highlighted in the data table.

Data Summary

Data Provider	WoSCAN; NoSCAN; SCAN
Temporality of the data	<i>January 2013 - June 2019</i>
Geographical extent	Scotland
Data tables	Chemocare
Further information	
Data dictionary	There is currently no data dictionary for Chemocare

Quality Performance Indicators (QPI)

As part of the NHS Scotland Healthcare Quality Strategy in 2010, the National Quality Performance Indicators (QPIs) were developed. These are a set of cancer specific, outcome focussed, evidence based indicators used to drive quality improvement in cancer care. Currently, these indicators are in place for 18 tumour types, including colorectal cancer. The QPI audits are carried out by each of the three cancer networks across Scotland and the data are curated by Public Health Scotland.

The Scottish CORECT-R include the Colorectal QPI indicators for those patients who had a colorectal cancer diagnosis during the period January 2013 to March 2018.

Data Summary

Data Provider	Public health Scotland (collected by WoSCAN; NoSCAN; SCAN)
Temporality of the data	<i>January 2013 – March 2019</i>
Geographical extent	Scotland
Further information	https://www.ndc.scot.nhs.uk/National-Datasets/data.asp?ID=2&SubID=21

Data dictionary

<https://www.isdscotland.org/Health-Topics/Cancer/Cancer-Audit/docs/Colorectal/Colorectal-Cancer-QPI-Dataset-V3-4-Final.pdf>

Data Summary

Data Provider	National Safe Haven Scotland (Project number: 1718-0026)
Temporality of the data	<i>January 1997-June 2019 (dates vary depending on data table)</i>
Geographical extent	Scotland
Data tables	SMR06 NRS Deaths SMR01 QPI Chemocare

Content

In what follows, we outline four data tables from the first batch of the CORECT-R Scotland data. Those are for NRS deaths, SMR06, SMR01, QPI and Chemocare. Some variables within the datasets are derived using pre-existing variables in that data set. The main spine of patients comes from the SMR06 registry. From here, all patients can be linked to their SMR01 records via their master ID. Further, if the patient died during the study period their SMR06 record can also be linked to their NRS deaths record. Patient records can also be linked to Chemocare and QPI, though it is possible that some patients who are present in Chemocare, are not present in SMR06, due to Chemocare covering a more recent time period than SMR06.

SMR06 data set (2006-2018)				
Data Item	Variable Name	Description of field content	Format	Further info
Identifiers				
Master ID	master_index	Pseudonymised person ID	Text	
Patient information				
Date of birth	dob_fmt	Date of Birth: MMYYYY	Date	
Gender	sex	Sex 0 = Not Known; 1 = Male; 2 = Female; 9 = (includes not stated by patient, or not recorded)	Number	
Age	age_in_years	Age at incidence date	Number	Derived from dob_fmt
10 year age bands	age_bands	"<35" "35-44" "45-54" "55-64" "65-74" "75-84" "85+"	Number	Derived from age_in_years
Date of death	dod_fmt	Date of Death: DDMMYYYY	Date	
Vital status	died	Vital status of patient. 0 = No, 1 = Yes	Number	Derived
Age of death	age_died	Age at death	Number	
Cause of death	cause_i	Cause of death i where i = 1,...,8. ICD10 Codes.	Text	
Died from crc	crc_death	CRC on death certificate as cause of death. 1 = Yes, 0 = No	Number	
Emigration date	embarkation_date	The date of emigration from Scotland: DDMMYYYY	Date	
End of follow up	end_of_follow_up	Date last observed (died, left country or censored): DDMMYYYY	Date	Derived from date of death, left country or final patient death.
Left Scotland	left_scotland	Patient left Scotland (based on presence of embarkation date)	Number	Derived from embarkation date
Survival time	survival	Years and months from date of incidence to date of follow up	Number	Derived from date of incidence and date of follow up.
Incidence date	incidence_date_fmt	Date of incidence: DDMMYYYY	Date	
Death certificate	death_certificate	The case has FIRST come to light ONLY as a result of a death. 0 = No, 1 = Yes	Number	
Death certificate only	death_certificate_only	The case has been registered from the death certificate only, since no other evidence of the tumour can be found. 0 = No, 1 = Yes	Number	
SIMD Decile	simdyear_sc_decile	Where year = 2004,2006,2009,2012 and 2016. Scottish Index of Multiple Deprivation Decile.	Number	
SIMD Quintile	simd2016_sc_quintile	Where year = 2004,2006,2009,2012 and 2016. Scottish Index of Multiple Deprivation Quintile.	Number	

Urban Rural (6 score)	ur6_year	Where year = 2003,...2016. Scottish Government 6 fold urban/rural classification. 1 = "Large urban area" 2 = "Other urban area" 3 = "Accessible small town" 4 = "Remote small town" 5 = "Accessible rural" 6 = "Remote rural"	Number	
Urban Rural (8 score)	ur8_year	Where year = 2003,...2016. Scottish Government 8 fold urban/rural classification.	Number	
Tumour information				
ICD10 Code	icd10s_cancer_site	The anatomical site of origin of the primary tumouor, format ICD10	Text	
ICD02 Code	icdo2_icdo2	The anatomical site of origin of the primary tumouor, format ICD02	Text	
ICD03 Code	type_icdo3	The histology of the tumour and comprises the first four digits of the ICD03 morphology	Text	
Grade classification system	grade_classification	The classification system used for grading the tumour. 1 = "Grading for Breast Cancer" 2 = "ICD0/UICC grading system" 3 = "Gleason Score (prostate)" 5 = "Fuhrman Nuclear Grade" 6 = "WHO grade for brain and CNS tumours" 8 = "Other" 9 = "Not determined/not stated/not appicable"	Number	
Differentiation	grade_cell_type	Indicates the degree of differentiation of malignant tumours. 0 - 10, G1, G2, GX.	Text	
Side	side	This indicates the side or laterality in the case of paired organs. 0 = "Not applicable" 1 = "Right" 2 = "Left" 3 = "Bilateral" 9 = "Not known"	Number	
Detection method	method_1st_detection	Indicates how the tumour was first detected. 1 = "Screening examination" 2 = "Incidental finding" 3 = "Clinical presentation" 4 = "Incidental finding at autopsy" 5 = "Interval Cancer" 8 = "Other" 9 = "Not known"	Number	
Most valid base of diagnosis	myb_diag	Most valid base of diagnosis: indicates the method judged to have provided or validated the diagnosis during the course of the illness. 1 = "Clinical only" 2 = "Clinical investigation (including x-ray, ultrasound, etc." 3 = "Exploratory surgery/endoscopy/autopsy (without concurrent or previous histology)" 4 = "Specific biochemical and/or immunological tests" 5 = "Cytology (including blood film or bone marrow aspirate)" 6 = "Histology of metastasis" 7 = "Histology of primary" 8 = "Autopsy with concurrent or previous histology" 9 = "Not known" 10 = "Death certificate"	Number	
Microscopic confirmation	hist_ver	Microscopic confirmation of the histological or cytological diagnosis. 1 = Verified, 2 = Not Verified.	Number	
Microinvasive	microinvasive	Degree of invasion which is not associated with any risk of nodal metastasis and is sufficiently small to treat by local or conservative means. 0 = No, 1 = Yes, 9 = Not known	Number	
Clinical T Stage	stage_clinical_t	Indicates the extent of the spread of the tumour at diagnosis in terms of clinical findings. Stage is associated with invasive tumours only. T-size/extent of primary tumour based on clinical examination +- imaging	Text	
Clinical N Stage	stage_clinical_n	Condition of regional lymph nodes/glands based on clinical examination +- imaging.	Text	

Clinical M Stage	stage_clinical_m	Indicates distant metastases	Text	
Pathologic T Stage	stage_pathologic_t	Indicates the extent of the spread of the tumour at diagnosis in terms of the pathological findings. Stage is associated with invasive tumours only. T-size/extent of primary tumour based on clinical examination +- imaging. Breast and lung	Text	
Pathologic N Stage	stage_pathologic_n	Condition of regional lymph nodes/glands based on clinical examination +- imaging	Text	
Pathologic M Stage	stage_pathologic_m	Indicates distant metastases	Text	
Dukes Stage (full)	stage_colorectal	Indicates the extent of spread of the invasive tumour at diagnosis in terms of the pathological and/or clinical findings for Socrates. Extent of primary tumour for Colorectal Cancer Dukes staging is primarily based on histological findings. Stages: A,B,C,C1,C2,D, Unknown.	Text	
Dukes Stage	dukes_stage	Duke's staging of colorectal cancer. 1 = "Duke's Stage A" 2 = "Duke's Stage B" 3 = "Duke's Stage C" 4 = "Duke's Stage D" 9 = "Duke's Stage Unknown"	Number	Derived
CRC ICD10 Codes	crc_icd10	CRC ICD-10 code. 0 = "Other" 1 = "C18:Colon" 2 = "C19: Rectosigmoid junction" 3 = "C20: Rectum" 4 = "C21:Anus/Anal Canal"	Number	
CRC Type	crc_type	Type of colorectal cancer. 1 = "Colon/Sigmoid" 2 = "Rectal"	Number	Derived from crc_icd10
CRC Flag	crc_flag	Diagnosed with colon, sigmoid or rectal cancer. 0 = No, 1 = Yes	Number	Derived from crc_type
Other cancer flag	other_cancer_flag	Patient had a non-crc diagnosis during the study period. 0 = No, 1 = Yes	Number	Derived from icd10s_cancer_site
Number of other cancers	count_other_cancer	Number of non-crc diagnoses the patient had during the study period	Number	
Pervious cancer	previous_cancer	Patient had a prior cancer diagnosis (pre-2006)	Number	
Previous CRC cancer	previous_crc_cancer	Patient had a prior CRC cancer diagnosis (pre-2006)	Number	
Treatment				
Nodes examined	nodes_examined	Pathological nodal status -Indicates what regional lymph nodes were examined. 0 = "No regional lymph nodes removed or aspirated" 1 = "Aspiration or biopsy of regional lymph node" 2 = "Sentinel lymph node biopsy" 3 = "Regional lymph node dissection" 4 = "Not known"	Number	
Number of nodes examined	no_of_nodes_examined	Indicates how many of the regional lymph nodes were examined.	Number	
Positive nodes	positive_nodes	Indicates if any of the regional lymph nodes were positive. 1 = Yes, 0 = No, 9 = Not known	Number	
Number of positive nodes	no_positive_nodes	Pathological nodal status -Indicates how many of the regional lymph nodes were positive.0 onwards, Not Known.	Text	

Diagnosis institution	hosp_gp_diag	Institution code in which the diagnosis was first made.	Text	
Health Board of diagnosis	smr06_health_board	Health board in which the diagnosis was first made according to SMR06	Text	Derived from hosp_gp_diag
Referred to radiotherapy	ref_to_rad	Referred to radiotherapy department 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Radiotherapy	treated_with_rad	Treated with radiotherapy. 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Type of radiotherapy	type_radio_type	Type of radiotherapy administered from 01.01.2006 (variable added to the file during June 2018) 1 =Brachytherapy, 2= External beam/Teletherapy, 3 =Proton beam therapy, 4 =Radioisotope therapy, 9 =Not Known	Number	
Radiotherapy to primary site	rad_to_primary	Radiotherapy to primary site. 1 = Yes, 0 = No, 9 = Not known	Number	
Radiotherapy to metastases	rad_to_mets	Radiotherapy to Metastases. 1 = Yes, 0 = No, 9 = Not known	Number	
Other radiotherapy	rad_other	Radiotherapy treatment Other such as organ ablation or prophylaxis. 1 = Yes, 0 = No, 9 = Not known	Number	
Date of first radiotherapy	dor_fmt	Date of first radiotherapy treatment: YYYY/MM/DD	Date	
Institution radiotherapy	hosp_1st_rad	Institution code/practice code of hospital/GP practice of first radiotherapy (if applicable)	Text	
Chemotherapy	chemo	Indicates if the patient has had systemic chemotherapy treatment. 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Date of first chemo	doc_fmt	Date of first chemo treatment: YYYY/MM/DD	Date	
Institution chemotherapy	hosp_gp_1st_chemo	Institution code/practice code of hospital/GP practice of first chemotherapy (if applicable)	Text	
Hormone therapy	horm_therapy	Indicates if the patient has had hormone therapy treatment. 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Date of first hormone therapy	doh_fmt	Date of first hormone treatment: YYYY/MM/DD	Date	
Institution hormone therapy	hosp_gp_1st_hormone_therapy	Institution code/practice code of hospital/GP practice that initiated the first hormone therapy (if applicable)	Text	
Surgery	surgery	Indicates if the patient has been treated with surgery. 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Date of first surgery	dos_fmt	Date of first surgical treatment: YYYY/MM/DD	Date	
Institution surgery	hosp_gp_1st_surgery	Institution code/practice code of hospital/GP practice where a surgical treatment was first carried out (if applicable)	Text	
Palliative surgery	palliative_surgery	Treated with palliative surgery (variable added to the file during June 2018). 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	

Date of first palliative surgery	dops_fmt	Date of first palliative surgical treatment: YYYY/MM/DD	Date	
Institution palliative surgery	hosp_gp_1st_pal_surgery	Institution code/practice code of hospital/GP practice where first palliative surgery was carried out(if applicable)	Text	
Immunotherapy	type_immun_type	Indicates if immunotherapy/biotherapy was administered. From 01.01.1997 (variable added to the file during June 2018) 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Date of first immunotherapy	doit_fmt	Date of first immunotherapy type treatment: YYYY/MM/DD	Date	
Institution immunotherapy	hosp_gp_1st_immun_type	Institution code/practice code of hospital/GP practice that initiated the first immunotherapy (if applicable)	Text	
Other therapy	other_therapy	Patient treated with other therapy. 1 = Yes, 0 = No, 7 = Planned, 9 = Not known	Number	
Date of first other therapy	doot_fmt	Date of first other therapy treatment: YYYY/MM/DD	Date	
Institution other therapy	hosp_gp_1st_other_therapy	Institution code/practice code of hospital/GP practice that initiated the first other therapy (if applicable)		
Other therapy	type_other_therapy	Indicates the type of other therapy treatment carried out.	Text	
Objectives of treatment	therapy_objectives	Objective of treatment. 1 = "Curative intent" 2 = "Non-curative intent (palliative)" 9 = "Not Known"	Number	

NRS deaths data set (2006-2019)				
Data Item	Variable Name	Description of field content	Format	Further info
Identifiers				
Master ID	master_index	Pseudonymised person ID	Text	
Patient information				
Date of birth	dob_fmt	Date of Birth: MMYYYY	Date	
Date of death	dod_fmt	Date of death: DDMMYYYY	Date	
Gender	sex	Sex 1 = Male; 2 = Female	Number	
Age died	age_died	Age at death.	Number	Derived from dob_fmt and dod_fmt
SIMD Decile	simdyear_sc_decile	Where year = 2004,2006,2009,2012 and 2016. Scottish Index of Multiple Deprivation Decile.	Number	
SIMD Quintile	simd2016_sc_quintile	Where year = 2004,2006,2009,2012 and 2016. Scottish Index of Multiple Deprivation Quintile.	Number	

Urban Rural (6 score)	ur6_year	Where year = 2003,...2016. Scottish Government 6 fold urban/rural classification. 1 = "Large urban area" 2 = "Other urban area" 3 = "Accessible small town" 4 = "Remote small town" 5 = "Accessible rural" 6 = "Remote rural"	Number	
Urban Rural (8 score)	ur8_year	Where year = 2003,...2016. Scottish Government 8 fold urban/rural classification.	Number	
Details of death				
Underlying cause of death	underlying_cause_of_death	The disease or injury which initiated the chain of morbid events leading directly to death, or the accident/act which produced the fatal injury. ICD10 codes.	Text	
Other causes of death	cause_of_death_code_i	Other causes of death mentioned on the death certificate, after the primary cause of death. ICD10 codes. Where i = 0,...,9.	Text	
Duration of illness in years	duration_of_illness_years_1i	Approximate interval between onset of illness and death in years. Where i= a,b,c,d.	Number	
Duration of illness in months	duration_of_illness_months_1i	Approximate interval between onset of illness and death in months. Where i= a,b,c,d.	Number	
Duration of illness in days	duration_of_illness_days_1i	Approximate interval between onset of illness and death in days. Where i= a,b,c,d.	Number	
Place of death	place_of_death	Place where death occurred. 0 = "Institution invalid or irrelevant" 1 = "NHS Hospital" 2 = "Home/Private Address" 3 = "Hospice" 4 "Private care homes and care homes" 5 "Homes for the elderly" 6 "Private hospital" 7 "Other"	Number	
Institution of death	institution	The institution code for where the death occurred.	Text	
Primary household occupation	occupation	Primary household occupation code.	Text	
Primary household occupation group	Major_occ_group	Primary household major occupation group. 0 = "Large employers and higher managerial occupations" 1 = "Higher professional occupations" 2 = "Lower managerial and professional occupations" 3 = "Intermediate occupations" 4 = "Small employers and own account workers" 5 = "Lower supervisory and technical occupations" 6 = "Semi-routine occupations" 7 = "Routine occupations" 8 = "Never worked and long term unemployed" 9 = "Students, not stated or not classifiable"	Number	Derived from occupation
Occupation	deceased_occupation_code	Classification of the deceased persons occupation code.	Text	
Major occupation group	dec_major_occ_group	Deceased persons major occupation group. 0 = "Large employers and higher managerial occupations" 1 = "Higher professional occupations" 2 = "Lower managerial and professional occupations" 3 = "Intermediate occupations" 4 = "Small employers and own account workers" 5 = "Lower supervisory and technical occupations" 6 = "Semi-routine occupations" 7 = "Routine occupations" 8 = "Never worked and long term unemployed" 9 = "Students, not stated or not classifiable"	Number	Derived from deceased_occupation_code

Employment status	deceased_employment_status	The employment status of the deceased. 0 = "Other- student, unemployed, not available, etc" 1 = "Employee, apprentice, armed forces- other rank etc" 2 = "Manager, superintendent, armed forces- officer etc" 3 = "Supervisor, foreman, charge hand etc" 4 "Self-employed- with employees" 5 "Self-employed- without employees"	Number	
Colorectal cancer related death	crc_death	An indicator that shows if any of the causes of death mentioned on the death certificate were due to colorectal cancer. 0 = Non-CRC death, 1 = CRC death	Number	
Country of residence	country_of_residence	Country of residence code for the deceased person. IS03166 codes.	Text	
Scottish resident	scottish_resident	Indicates if the deceased was a Scottish resident. 0 = No, 1 = Yes	Number	Derived from country_of_residence
Health Board	deaths_health_board	Health board where the death occurred. A= "Ayrshire and Arran" B = "Borders" C = "Argyll and Clyde" F = "Fife" G = "Greater Glasgow" H = "Highland" L = "Lanarkshire" N = "Grampian" R = "Orkney" S = "Lothian" T = "Tayside" V = "Forth Valley" W = "Western Isles" Y = "Dumfries and Galloway" Z = "Shetland"	Text	Derived from institution.

SMR01 data set (1997-2018)				
Data Item	Variable Name	Description of field content	Format	Further info
Identifiers				
Master ID	master_index	Pseudonymised person ID	Text	
Patient information				
Date of birth	dob_fmt	Date of Birth: MMYYYY	Date	
Gender	sex	Sex 0 = Not Known; 1 = Male; 2 = Female; 9 = (includes not stated by patient, or not recorded)	Number	
SIMD Decile	simdyear_sc_decile	Where year = 2004,2006,2009,2012 and 2016. Scottish Index of Multiple Deprivation Decile.	Number	
SIMD Quintile	simd2016_sc_quintile	Where year = 2004,2006,2009,2012 and 2016. Scottish Index of Multiple Deprivation Quintile.	Number	
Urban Rural (6 score)	ur6_year	Where year = 2003,...2016. Scottish Government 6 fold urban/rural classification. 1 = "Large urban area" 2 = "Other urban area" 3 = "Accessible small town" 4 = "Remote small town" 5 = "Accessible rural" 6 = "Remote rural"	Number	
Urban Rural (8 score)	ur8_year	Where year = 2003,...2016. Scottish Government 8 fold urban/rural classification.	Number	
Episode level information				

Date of admission	doa_fmt	Date of admission: YYYYMMDD	Date	
Date of discharge	dodis_fmt	Date of discharge: YYYYMMDD	Date	
Year of admission	yoa	Year of admission	Number	Derived from doa_fmt
Health Board	smr01_health_board	Health Board. A = "Ayrshire and Arran" B = "Borders" C = "Argyll and Clyde" F = "Fife" G = "Greater Glasgow" H = "Highland" L = "Lanarkshire" N = "Grampian" R = "Orkney" S = "Lothian" T = "Tayside" V = "Forth Valley" W = "Western Isles" Y = "Dumfries and Galloway" Z = "Shetland"	Text	
Institution type	smr01_institution_type	Institution type. C = "Clinic Premises" H = "NHS Hospital" J = "Joint user hospital" K = "Contractural hospital" V = "Private nursing home, private hospital"	Text	
Type of admission	admission_type	Admission type. 10 = "Routine Admission - no additional detail added" 11 = "Routine elective (i.e. from waiting list as planned, excludes planned transfers)" 12 = "Patient admitted on day of decision to admit, or following day, not for medical reasons, but because suitable resources are available" 18 = "Planned transfers" 19 = "Routine Admission - type not known" 20 = "Urgent Admission - no additional detail added" 21 = "Patient delay (for domestic, legal or other practical reasons)" 22 = "Hospital delay (for administrative or clinical reasons e.g. arranging appropriate facilities, for tests to be carried out, specialist equipment, etc.)" 30 = "Emergency Admission - no additional detail added" 31 = "Patient Injury - Self Inflicted (Injury or Poisoning)" 32 = "Patient Injury - Road Traffic Accident (RTA)" 33 = "Patient Injury - Home Incident (incl. assault or accidental poisoning)" 34 = "Patient Injury - Incident at Work (incl. assault or accidental poisoning)" 35 = "Patient Injury - Other Injury (including assault or accidental poisoning other than in the home or at work)" 36 = "Patient Non-Injury (e.g. stroke, MI, ruptured appendix)" 38 = "Other Emergency Admission (including emergency transfers)" 39 = "Emergency Admission - type not known"	Number	
Type of admission group	admission_type_group	Type of admission- higher level grouping. 1 = "Routine admission" 2 = "Urgent admission" 3 = "Emergency admission" 9 = "Admission type unknown"	Number	
Patient category	patient_category	Patient category. 1 = "Amenity" 2 = "Paying" 3 = "NHS" 4 = "Overseas visitor - liable to pay for treatment" 5 = "Overseas visitor - not liable to pay" 8 = "Other (including Hospice)"	Number	

Continuous inpatient stay	cis_marker	Continuous inpatient stay marker- CIS is the unbroken period of care that a patient spends as an inpatient	Number	
Specialty	specialty	The division of medicine or dentistry covering a specific area of clinical activity	Text	
Significant facility	significant_facility	Type of clinical facility which is identified for clinical and/or costing purposes	Text	
Discharge/transfer to	discharge_transfer_to	Type of location a patient is discharged/transferred to following an episode of care	Text	
Discharge/transfer to group	dis_trans_to_group	Main grouping for discharge/transfer to group. 1 = "Patient died" 10 = "Private residence" 20 = "Institution" 30 = "Temporary place of residence" 40 = "Transferred within the same health board/health care provider" 50 = "Transferred to another health board/health care provider" 60 = "Other type of location"	Number	Derived from discharge_transfer_to
Discharge type group	dis_type_group	Main grouping for discharge type. 10 = "Regular discharge" 20 = "Irregular discharge" 40 = "Death"	Number	Derived from discharge_type
Discharge type	discharge_type	Indicates whether a discharge from an inpatient or day case episode is regular,irregular or due to patient death. 10= "Regular Discharge - no additional detail added" 11 = "Discharge from NHS inpatient/day case care" 12 ="Transfer within the same Health Board/ Health Care Provider" 13 = "Transfer to another Health Board/ Health Care Provider" 18 = "Other type of regular discharge" 19= "Regular discharge - type not known" 20 = "Irregular Discharge - no additional detail added" 21= " Patient discharged himself/herself against medical advice" 22= "Patient discharged by relative" 28 Other type of irregular discharge" 29= Irregular discharge - type not known" 40 ="Death - no additional detail added" 41 =Death - Post Mortem"	Number	
HRG	hrg	Healthcare resource group.	Text	
Length of stay	length_of_stay	Length of stay in hospital days (at episode level)	Number	
Medical conditions and treatment				
Main medical condition	main_condition	Main medical (or social) condition managed/investigated during the patient's stay	Text	
Other medical condition	other_conditition_i	Where i= 1,...,5. The i'th other medical condition managed/investigated during the patient's stay after the main condition	Text	

Main condition colorectal cancer	main_condition_crc	Indicates the type of CRC if the main condition was CRC. 0 = "Non-CRC" 1 = "C18:Colon" 2 = "C19: Rectosigmoid junction" 3 = "C20: Rectum"	Number	
Any condition colorectal cancer	any_condition_crc	Indicates the type of CRC if the any condition was CRC. 0 = "Non-CRC" 1 = "C18:Colon" 2 = "C19: Rectosigmoid junction" 3 = "C20: Rectum"	Number	
Main operation	main_operation	Main operation carried out during patient stay (OPCS4)	Text	
Other operations	other_operation_i	Where i= 1,...,3. Other operation carried out during patient stay (i'th after main)	Text	
OPCS4 Code	opcode2	First OPCS4 code of main_operation	Text	Derived from main_operation
OPCS4 Code 2B	opcode2b	Second OPCS4 code of main_operation	Text	Derived from main_operation
OPCS4 Code Group	opcode_derived	Grouping variable for colorectal operation. 1 = "Major resection" 2 = "Minor resection" 3 = "Bypass/stoma" 4 = "Stent" 5 = "Appendix" 6 = "Liver" 7 = "Other/currently unknown"	float	
OPCS4 Code Group 2B	opcode2b_derived	Grouping variable for colorectal operation where additional info is given for the same operation. 1 = "Major resection" 2 = "Minor resection" 3 = "Bypass/stoma" 4 = "Stent" 5 = "Appendix" 6 = "Liver" 7 = "Other/currently unknown"	float	
Acute myocardial infarction	ami	Acute myocardial infarction. 0 = No, 1 = Yes	Number	
Congestive heart failure	chf	Congestive heart failure. 0 = No, 1 = Yes	Number	
Peripheral vascular disease	pvd	Peripheral vascular disease. 0 = No, 1 = Yes	Number	
Cerebrovascular disease	cevd	Cerebrovascular disease. 0 = No, 1 = Yes	Number	
Dementia	dementia	Dementia. 0 = No, 1 = Yes	Number	

COPD	copd	Chronic obstructive pulmonary disease. 0 = No, 1 = Yes	Number	
Rheumatoid disease	rheumd	Rheumatoid disease - Connective tissue disease. 0 = No, 1 = Yes	Number	
Peptic ulcer disease	pud	Peptic ulcer disease. 0 = No, 1 = Yes	Number	
Mild liver disease	mld	Mild liver disease. 0 = No, 1 = Yes	Number	
Diabetes no complications	diab	Diabetes no complications. 0 = No, 1 = Yes	Number	
Diabetes w complications	diabwc	Diabetes w complications. 0 = No, 1 = Yes	Number	
Hemiplegia or paraplegia	hp	Hemiplegia or paraplegia. 0 = No, 1 = Yes	Number	
Renal disease	renal	Renal disease. 0 = No, 1 = Yes	Number	
Cancer (any malignancy)	cancer	Cancer (any malignancy). 0 = No, 1 = Yes	Number	
Moderate or severe liver disease	msld	Moderate or severe liver disease. 0 = No, 1 = Yes	Number	
Metastatic solid tumour	metacancer	Metastatic solid tumour. 0 = No, 1 = Yes	Number	
HIV	hiv	HIV. 0 = No, 1 = Yes	Number	

QPI data set (2013-2018)				
Data Item	Variable Name	Description of field content	Format	Further info
Identifiers				
Master ID	master_index	Pseudonymised person ID	Text	
Patient information				
Date of birth	dob_fmt	Date of Birth: MMYYYY	Date	
Sex	sex	Sex. 1 = Male; 2 = Female;	Number	

Date of death	dod_fmt	Date of Death: DDMMYYYY	Date	
Diagnosis				
Source of cancer referral	mrefer	Source of Cancer Referral. 1 "Primary care" 2 "Screening" 3 "Incidental" 4 "Review clinic" 5 "Cancer genetic clinic" 6 "Self-referral A&E" 7 "GP direct to hospital" 8 "Previous GP but subsequent to hospital" 11 "Primary care clinician (dental)" 12 "Private healthcare" 13 "Other" 99 "Not recorded"	Number	
Location of diagnosis	hosp	Location of diagnosis	Text	
Health board of diagnosis(QPI)	qpi_health_board	Health Board according to QPI hosp of diagnosis. A= "Ayrshire and Arran" B = "Borders" C = "Argyll and Clyde" F = "Fife" G = "Greater Glasgow" H = "Highland" L = "Lanarkshire" N = "Grampian" R = "Orkney" S = "Lothian" T = "Tayside" V = "Forth Valley" W = "Western Isles" Y = "Dumfries and Galloway" Z = "Shetland"	Derived from hosp	
Date of diagnosis	diagdate_fmt	Date of Diagnosis : DDMMYYYY	float	
Date of histological diagnosis	hdiag	Date of Histological Diagnosis	long	
Most valid basis of diagnosis	valid	Most valid basis of diagnosis. 1 ="Clinical only" 2 ="Clinical Investigation" 3 ="Exploratory surgery/endoscopy/autopsy" 4= "Tumour specific markers" 5= "Cytology" 6= "Histology of metastasis" 7= "Histology of primary" 99= "Not known"	Number	
Staging/Imaging				
Staging investigations complete	sinvest	Staging investigations complete. 1 "Complete CTCAP" 2 "Complete CTCAP and MRI" 3 "Incomplete" 4 "Incomplete - Contraindications" 95 "Patient refused" 96 "Not applicable" 99 "Not recorded"	byte	
Data staging investigations complete	sinvestdate_fmt	Date Staging Inv completed: DDMMYYYY	Date	
Large bowel imaging	lbtype	Large bowel imaging. 1 "Yes Colonoscopy or CT Colonography" 2 "Incomplete" 3 "Not performed" 4 "Incomplete due to obstructing tumour" 94 "Patient died before treatment" 95 "Patient refused" 96 "Not applicable" 99 "Not recorded"	Number	
Date of large bowel imaging	lbdate_fmt	Date of Large Bowel Imaging : DDMMYYYY	Date	
Treatment				
Date of discussion by MDT	mdtdate_fmt	Date discussed by multidisciplinary team (MDT): DDMMYYYY	Date	

Seen by stoma nurse	stomanurse	Seen by Stoma Nurse. 1= "Yes" 2 = "No" 95= "Patient refused" 96 = "Not applicable" 99 = "Not recorded"	Number	
Date seen by stoma nurse	stomandate_fmt	Date of Stoma nurse : DDMMYYYY	Date	
Stoma site marked	stomamark	Stoma Site Marked Pre-op. 1= "Yes" 2 = "No" 95= "Patient refused" 96 = "Not applicable" 99 = "Not recorded"	Number	
Date of first treatment	firsttreatdate_fmt	Date of first treatment: DDMMYYYY	Date	
Type of first cancer treatment	firsttreatmode	Type of First Cancer Treatment. 1= "Surgery" 2 = "Radiotherapy" 3 = "Chemotherapy" 4= "Chemoradiotherapy" 5= "Endoscopic" 7= "Supportive Care Only" 11= "Other therapy" 94= "Patient died before treatment" 95 = "Patient refused treatment" 99= "Not recorded"	Number	
Date of definitive treatment	deftreatdate_fmt	Date of definitive treatment : DDMMYYYY	Date	
ASA status	asa	American Society of Anaesthesiologists (ASA) status. The ASA PS classification globally assesses the degree of "sickness" or "physical state" prior to selecting the anaesthetic or prior to performing surgery 1= "Normal healthy patient" 2 = "Mild systemic disease" 3 = "Severe systemic disease" 4 = "Severe systemic disease constant threat to life" 5 = "Moribund" 6 = "Brain-dead" 96 = "Not applicable" 99 = "Not recorded"	Number	
Location of surgery	hospsurg	Location of Surgery	Text	
OPCS4 Code	opcode2	Final Definitive Surgery Performed CRC	Text	
OPCS4 Code 2B	opcode2b	Final Definitive Surgery Performed CRC 2b	Text	
OPCS4 Code Group	opcode_derived	Grouping variable for colorectal operation. 1 = "Major resection" 2 = "Minor resection" 3 = "Bypass/stoma" 4 = "Stent" 5 = "Appendix" 6 = "Liver" 7 = "Other/currently unknown"	Number	
OPCS4 Code Group 2B	opcode2b_derived	Grouping variable for colorectal operation where additional information is given for the same operation. 1 = "Major resection" 2 = "Minor resection" 3 = "Bypass/stoma" 4 = "Stent" 5 = "Appendix" 6 = "Liver" 7 = "Other/currently unknown"	Number	
Total Mesorectal Excision	texcision	Total Mesorectal Excision. 1 = "Yes" 2 = "No" 96 = "Not applicable" 99= "Not recorded"	Number	
Type of surgical approach	surgappr	Surgical Approach. 1 = "Open" 2 = "Laparoscopic completed" 3 = "Laparoscopic converted" 4 = "TEM" 5 "TART" 96 = "Not applicable" 99= "Not known"	Number	
Date of definitive surgery	finsurgdate	Date of Definitive Surgery CRC: DDMMYYYY	Date	
Presentation type	present	Presentation type. 1 = "Elective routine" 2= "Emergency" 96= "Not applicable" 99= "Not recorded"	Number	

Anastomotic leak	anasleak	Anastomotic Leak. 1= "Yes" 2= "No anastomotic leak" 96= "Not applicable" 99= "Not known"	Number	
Intent of surgery	opintent	Intent of Surgery. 1= "Curative" 2= "Palliative" 96= "Not applicable" 99= "Not recorded"	Number	
Re-operation	reoper	Re-operation. 1= "Yes" 2= "No" 96= "Not applicable" 99= "Not recorded"	Number	
Extramural venous invasion	extra	Extramural venous invasion. 1= "Present" 2= "Not present" 96= "Not applicable" 99= "Not recorded"	Number	
Circumferential margin involved	circmargin	Circumferential margin involved. 1= "Involved" 2= "Not involved" 96= "Not applicable" 99= "Not recorded"	Number	
Location of SACT	hospsact	Location of SACT	Text	
Location of radiotherapy	hospradio	Location of radiotherapy	Text	
Neo-Adjuvant Oncology Treatment Type.	neoonc	Neo-Adjuvant Oncology Treatment Type. 1= "Short Course RT" 2= "Long Course RT with chemo" 3= "Long Course RT alone" 4= "Chemotherapy" 80= "Patient died before radiotherapy" 81= "Patient died before SACT" 82= "Patient died before chemoRT" 83= "Patient refused RT" 84= "Patient refused SACT" 85= "Patient refused chemoRT" 86= "RT contraindicated" 87= "Chemotherapy contraindicate" 88= "ChemoRT contraindicated" 96= "Not applicable" 99= "Not recorded"	Number	
Date Neo-adjuvant oncology treatment started	neoadjdate_fmt	Date Neo-adjuvant oncology treatment started : DDMMYYYY	Date	
Date Neo-adjuvant oncology treatment completed	neoadjcom_fmt	Date Neo-adjuvant oncology treatment completed : DDMMYYYY	Date	
Primary/Palliative /Adjuvant Oncology Treatment Type	adjonc	Primary/Palliative/Adjuvant Oncology Treatment Type. 1= "Adjuvant Long Course RT with chemotherapy" 2= "Adjuvant chemotherapy" 3= "Adjuvant RT" 4= "Primary Chemotherapy" 5= "Primary/Radical RT" 6= "Palliative RT" 7= "Palliative Chemotherapy" 8= "Biological Therapy" 9= "Palliative Chemoradiotherapy" 80= "Patient died before radiotherapy" 81= "Patient died before SACT" 82= "Patient died before chemoRT" 83= "Patient refused RT" 84= "Patient refused SACT" 85= "Patient refused chemoRT" 96= "Not applicable" 99= "Not recorded"	Number	
Date Primary/Palliative /Adjuvant Oncology Treatment started	adjoncdatetime_fmt	Date Primary/Palliative/Adjuvant Oncology Treatment started : DDMMYYYY	Date	

Date Primary/Palliative/Adjuvant Oncology Treatment completed	adjcom_fmt	Date Primary/Palliative/Adjuvant Oncology Treatment completed : DDMMYYYY	Date	
Health Board	hbyear	Health Board code using various year codes. Where year = 2006, 2014, 2018, 2019.	Text	
Tumour characteristics				
Site of origin of primary tumour	site	Site of Origin of Primary Tumour. 1="Caecum" 2="Currently unknown await update" 3="Ascending colon" 4="Hepatic flexure" 5="Transverse colon" 6="Splenic flexure" 7="Descending colon" 8="Sigmoid colon" 9="Overlapping lesion of colon" 10="Colon, unspecified" 11="Rectum" 12="Not recorded"	Number	
Circumferential margin involved	circmargin	Circumferential margin involved. 1="Involved" 2="Not involved" 96="Not applicable" 99="Not recorded"	Number	
Grade of differentiation	different	Grade of differentiation. 1="Well/moderate" 2="Poor" 3="Not assessable" 96="Not applicable" 99="Not known"	Number	
Number of lymph nodes examined	lnexamine	Final total number of lymph nodes examined microscopically	Number	
Number of lymph nodes involved	lninvolve	Number of lymph nodes involved	Number	
TNM Tumour	finalt	TNM tumour	Number	
TNM Nodes	finaln	TNM nodes	Number	
TNM Metastasis	finalm	TNM Metastasis	Number	
Dukes staging	dukes	Dukes stage. 1="Dukes A" 2="Dukes B" 3="Dukes C1" 4="Dukes C2" 5="Dukes D" 96="Not applicable" 99="Not recorded"	Number	
Dukes staging derived from TNM	dukes_derived_qpi	Dukes stage derived from TNM staging. 1="Dukes A" 2="Dukes B" 3="Dukes C" 4="Dukes D"	Number	Derived from finalt, finaln, finalm
Cancer Network specific				
Cancer Network	location	Indicates regional cancer network. 1 = SCAN, 2 = WoScan, 3 = NoSCAN	Number	Derived
SCAN	SCAN_flag	Indicates if the record is from SCAN. 0 = No, 1 = Yes	Number	
WoSCAN	Wos_flag	Indicates if the record is from Wo-SCAN. 0 = No, 1 = Yes	Number	
Distance from anal verge (SCAN only)	analverge_SCAN	Distance from Anal Verge	Number	
CT Chest Result (SCAN only)	cxr_SCAN	CT Chest Result. 1="No metastases" 2="Metastases" 3="Equivocal" 4="Not performed" 95="Patient refuses investigation" 96="Not applicable" 99="Not recorded"	Number	

Date of CT Chest Result (SCAN only)	xdate_SCAN	Date of CT Chest Result	Date	
Liver imaging Result (SCAN only)	liver_SCAN	Liver imaging Result. 1 ="No metastases" 2 ="Metastases" 3 ="Equivocal" 4="Not performed" 95 ="Patient refused investigation" 96 ="Not applicable" 99 ="Not recorded"	Number	
Date of liver imaging completed (SCAN only)	liverdate_SCAN_fmt	Date of liver imaging SCAN completed : DDMMYYYY	Date	
Circumferential Resection Margin Predicted (SCAN only)	cmarginpredict_SCAN	Circumferential Resection Margin Predicted. 1 ="Clear" 2 ="Threatened" 3 ="Involved" 96 ="Not applicable" 98= "Not assessed" 99= "Not recorded"	Number	

Chemocare data set (2013-2018)				
Data Item	Variable Name	Description of field content	Format	Further info
Identifiers				
Master ID	master_index	Pseudonymised person ID	Text	
Patient information				
Gender	sex	Sex of patient. 1 = Male; 2 = Female	Number	
Patient height	height	Patient height in meters	Float	
Patient weight	weight	Patient weight in kg	Float	
Body surface area	body_surface_area	Calculation of body surface area based on height and weight (generated by Chemocare)	Float	
Intention of treatment	intention	Intention of treatment (as in Chemocare)	String	
Intention of treatment grouping	intention_group	Intention of treatment. 1 ="Adjuvant" 2 ="Curative" 3 ="Radical" 4 ="Neo-Adjuvant" 5 ="Palliative" 6 ="Peri-op" 7= "Durable Remission" 8 ="Day Case" 9 ="MAI" 10 ="INT" 11= "CON" 99= "Unknown"	Number	Derived from intention
Appointment date	appointment_date	Appointment date chemotherapy drug was administered: DDMMYYYY	Date	
Cycle number	cycle_number	Cycle of chemotherapy (generated by Chemocare)	Number	
Day number	day_number	Day of the cycle of chemotherapy (generated by Chemocare)	Number	
Drug name	drug_name	Drug name for any drug administered during chemotherapy appointment.	Text	
Drug dose	drug_dose	Standard drug dose per meter squared for specific drug or dose band.	Number	
Required dose	required_dose	Actual dose delivered to patient.	Number	

Diagnosis	diagnosis	Diagnosis (original text from Chemocare)	Text	
Diagnosis grouping	Diagnosis_group	Diagnosis to differentiate colon and rectum, and may indicate the intention of treatment e.g. palliative, curative and line of treatment in metastatic setting e.g. 1 st , 2 nd , 3 rd . 1 = "Colon" 2 = "Rectal" 3 = "Adjuvant Colon" 4 = "Adjuvant Rectum" 5 = "Adj rectum after downstaging" 6 = "Adj Rectal after primary" 7 = "Adj rectum post resection" 8 "Pal Colon 1st" 9 = "Pal Colon 2nd" 10 = "Pall Colon 3rd" 11 = "Pall Colon 4th" 12 = "Pall Rectum 1st" 13 = "Pall Rectum 2nd" 14 = "Pall Rectum 3rd" 15 = "Pall Rectum 4th" 16 = "Neoadj rectum" 17 = "Neoadj colon liver" 18 "Neoadj rectum liver" 19 = "Periop colon" 20 = "Periop rectum" 21 = "Pseudomyxoma 1st" 22 = "Pseudomyxoma 2nd" 23 = "Anal" 24 = "Misc" 25 = "LowerGI"	Number	Derived from diagnosis
Regime	regime	Description of drug regimen given to patient.	Text	
Cancer Network specific				
Cancer Network	location	Location. 1 = "SCAN" 2 = "WoSCAN" 3 = "Grampian" 4 = "Highland" 5 = "Tayside"	Number	
Protocol (SCAN only)	protocol_SCAN	Further explanation about drug regimen. Available for SCAN only.	Text	
Drug type (SCAN only)	drug_type_SCAN	Type of drug e.g. chemotherapy, anti-sickness, anti-diahoerea etc.	Text	
Hospital (SCAN only)	hospital_SCAN	Hospital. BGH = Borders General Hospital, DRI = Dumfries and Galloway Royal Infirmary, SJH = St John's Hospital, VHF = Victoria Hospital, WGH = Western General Hospital	Text	
Method of dose calculation (WoSCAN. NoSCAN only)	calculation	Method of dose calculation. 1 = "Flat" 2 = "Glomerular Filtration Rate" 3 = "Surface Area" 4 = "Weight" 99 = "Unknown"	Number	
Unit of drug (NoSCAN only)	unit	Unit of drug. 1 = "Application" 2 = "Capsule" 3 = "Tablet" 4 = "Sachet" 5 = "Drop" 6 = "Gram" 7 = "Mg" 8 = "Mcg" 9 = "IU" 10 = "MU" 11 = "Ml" 12 = "Mmol" 13 = "Unit" 99 = "Unknown"	Number	
Date BSA recorded (WoSCAN and Grampian only)	date_bsa_recorded	Date body surface area calculated and updated.	Date	
Capped (WoSCAN only)	capped	Capped dose for body surface area. 0 "No" 1 "Yes" 99 "Unknown"	Number	
Duration (WoSCAN only)	duration	Duration of drug prescription e.g. in days or weeks.	Text	
Frequency (WoSCAN only)	freq	Frequency of drug administration e.g. per-day.	Text	

Performance status (WoSCAN, NoSCAN only)	performance_status	<p>Performance status is an overall assessment of the functional/physical performance of the patient. This is a five point scale in which '0' denotes normal activity and '4' a patient who is 100% bed ridden. 0 =Fully active, able to carry on all pre-disease performance without restriction</p> <p>1 =Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g. light housework, office work</p> <p>2 =Ambulatory and capable of self care but unable to carry out any work activities: up and about more than 50% of waking hours</p> <p>3 =Capable of only limited self care, confined to bed or chair more than 50% of waking hours</p> <p>4 =Completely disabled, cannot carry on any self care, totally confined to bed or chair</p> <p>9 = Not recorded</p>	Number	
Drug route (WoSCAN and NoSCAN only)	drug_route	The route the drug was administered (e.g oral, IV)	Text	
Drug route grouping (WoSCAN and NoSCAN only)	Drug_route_group	1 = "Intravenous (IV)" 2 = "Oral" 3 = "Intramuscular" 4 = "Sub Cutaneous" 5 = "Topical-skin" 6 = "Eye- topical, drops, intravetrial" 7 = "Mouth wash" 8 = "Buccal" 9 = "Per rectal" 10 = "Other" 99 = "Missing"	Number	Derived from drug_route