EHPDCL Data Catalogue

Version: 1.2.0

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Amendment History

Date	Version	Updates
20-May-2025	1.0.0	• DCL Data Catalogue (Initial version for EHP data service)
15-Dec-2025	1.1.0	• Added Table of Content section • Added 25 Data Products of Chronic Diseases and Common Cancers
04-Feb-2026	1.1.1	• Appended footnote to X01 dataset
21-Apr-2026	1.1.2	• Fixed typo in footnotes of D16, D17, D18, D19 and D20 datasets
06-Aug-2026	1.2.0	• Added D25 – Stroke Proforma dataset • Added M29 – Stroke Proforma – Mapping of Field Entity ID • Appended data column in D09 dataset • Updated footnotes of D05, D17 to D20 datasets • Fixed typo in data description of T03 dataset • Added QR Code and URL for data provision questionnaire

Contents

Summary of Datasets 4
Summary of Mapping Tables 5
Summary of Data Products 6
Datasets (D01 – D25, T01 - T03, X01) 7
Mapping Tables (M01 – M29) 66
Data Product (S01 – S14, C01 – C11) 76
Feedback on EHPDCL Data Provision 101

Summary of Datasets

The following is the fundamental DCL data provision on structured, textual and image data.

ID#	Dataset Name	Data Available
D01	Patient Demographic	All
D02	Diabetes Mellitus Complication Screening	All
D03	Family Medicine - Patient Disease	All
D04	Family Medicine - Consultation Note ICPC	All
D05	Immunization	01 Oct 2009
D06	Diagnosis Progress	All
D07	Procedure Progress	All
D08	Outpatient Appointment and Attendance	01 Jan 2000
D09	Accident and Emergency Department Attendance	01 Jan 2000
D10	Episode Miscellaneous Information	All
D12	Inpatient Admission, Transfer & Discharge - Episode's Transaction	01 Jan 1997
D13	Radiology Appointment	01 Apr 1999
D14	Radiology Examination Result	01 Apr 1999
D15	Medications - Dispensed Prescription	01 Jan 2000
D16	Medications - Multiple Dosage	01 Jan 2000
D17	Laboratory Result - Chemical Pathology	01 Jan 2000
D18	Laboratory Result - Hematology & Immunology	01 Jan 2000
D19	Laboratory Result - Microbiology & Virology	01 Jan 2000
D20	Laboratory Result - Bacterial Culture and Sensitivity Test	01 Jan 2000
D21	Anatomical Pathology - Specific SNOMED Result	01 Jan 2000
D23	Obstetrics	01 Jan 2002
D24	(Reserved)	-
D25	Stroke Proforma	01 Jun 2006
T01	Radiology Exam Report (TEXT)	01 Apr 1999
T02	Laboratory Result (TEXT)	01 Jan 2000
T03	Clinical & Discharge Note (TEXT)	03 Feb 1994
X01	Radiology Image (DICOM)	01-Jan 2007

Summary of Mapping Tables

The following mapping tables enable the translations from code to description for specific settings. They will be given to researchers while the relevant datasets are selected.

ID#	Table Name
M01	Family Medicine - Mapping of Disease Element
M02	Family Medicine - Mapping of ICPC Code
M03	Immunization - Mapping of Status
M04	Immunization - Mapping of Vaccine
M06	Procedure Progress - Mapping of Term Id
M07	Accident and Emergency Department Attendance - Mapping of Triage Category
M08	Inpatient Admission, Transfer & Discharge - Specialty Classification
M09	Radiology - Mapping of Examination Details
M10	Medications - Mapping of Drug Item Code
M11	Medications - Mapping of Frequency
M12	Medications - Mapping of Daily Frequency
M13	Medications - Mapping of Supplementary Frequency
M14	Medications - Mapping of Route
M15	Medications - Mapping of British National Formulary (BNF) Code
M16	Mapping of Entity
M17	Bacterial Culture and Sensitivity Test – Mapping of Sensitivity Code
M18	Mapping of IAMS Entity Concept
M19	Mapping of IAMS Concept
M20	Anatomical Pathology - Mapping of Term Id
M21	Mapping of District
M22	Mapping of Service Type
M23	Diagnosis Progress - Mapping of ICD-10
M28	Mapping of Mode of Delivery
M29	Stroke Proforma – Mapping of Field Entity ID

Summary of Data Products

The data product is a collection of datasets for a specific disease, which enables researchers to jump start their research studies.

ID#	Product Name	Datasets included
S01	Chronic Heart Failure (CHF)	D01 to D23
S02	Chronic Kidney Disease (CKD) Stage 3A, 3B, 4 & 5	D01 to D23
S03	Chronic Obstructive Pulmonary Disease (COPD)	D01 to D23
S04	Coronary Heart Disease (CHD)	D01 to D23
S05	Dementia	D01 to D23
S06	Diabetes Mellitus (DM)	D01 to D23
S07	Glaucoma	D01 to D23
S08	Hepatitis B Carriers	D01 to D23
S09	Hip Fracture (as approximate for Osteoporosis)	D01 to D23
S10	Hyperlipidemia (HLD)	D01 to D23
S11	Hypertension (HT)	D01 to D23
S12	Parkinsonism	D01 to D23
S13	Stroke	D01 to D23
S14	Depression	D01 to D23
C01	Colorectal Cancer	D01 to D23
C02	Breast (Female) Cancer	D01 to D23
C03	Lung Cancer	D01 to D23
C04	Prostate Cancer	D01 to D23
C05	Liver Cancer	D01 to D23
C06	Nasopharynx Cancer	D01 to D23
C07	Stomach Cancer	D01 to D23
C08	Corpus Cancer	D01 to D23
C09	Ovary Cancer	D01 to D23
C10	Cervix Cancer	D01 to D23
C11	Non-Hodgkin Lymphoma	D01 to D23

Important Note:

1) *For the provision of data products (S01-S14 and C01-C11), there will be 2-years gap from current year, i.e. the data will be provided up to 31 Dec 2023 while current year is 2026.*
2) *The dataset includes only HA patients, and their chronic disease status is determined based on a set of operational rules and coding methods recorded in the HA information system. Therefore, patients whose chronic disease status is diagnosed outside HA may not be covered.*
3) *For the included datasets to each data product, it contains all treatment and transaction records, which may not necessarily be related to the treatment of a specific chronic disease.*

Datasets (D01 – D25, T01 - T03, X01)

Dataset id: **D01**

Dataset name: **Patient Demographic**

File name: **patient_data.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	sex	char(1)	Sex of the patient	"F" = "Female" "M" = "Male"
501	dob_Y	date	Year of Birth	YYYY-01-01
3	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	
502	death_date_Y	date	The date of death reported in death registry provided by HKSAR Immigration Department (up to year) [1]	"YYYY-01-01"
503	diff_in_hour_death_date	integer	Time difference (in hour) between the death date and the timestamp of the first appointment / admission. [2]	A numeric value
504	death_diag_cd	varchar (4)	The underlying cause of death reported in death registry provided by HKSAR Immigration Department [3]	Example: "A000", "B999"
505	death_ext_cd	varchar (4)	The external cause of death reported in death registry provided by HKSAR Immigration Department [4]	Example: "V01", "X99"

[1] "death_date_Y" is only available for EXPERT service.

[2] "diff_in_hour_death_date" is only available for EXPERT service.

[3] "death_diag_cd" is only available for EXPERT service.

[4] "deat_ext_cd" is only available for EXPERT service.

Dataset id: **D02**

Dataset name: **Diabetes Mellitus Complication Screening[5]**

File name: **dmcs_data.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	assessment_dtm	datetime year to fraction(3)	Date of first Metabolic Risk Assessment (up to month)	YYYY-MM-01
188	dm_flag	char(1)	Diagnosis on Diabetes Mellitus	"Y" = "Yes" Blank = "No"
2	dx_dtm	datetime year to fraction(3)	Date of diagnosis of Diabetes Mellitus	YYYY-MM-01
3	dm_type_cd	char(1)	Type of Diabetes Mellitus	"1" = "Type 2" "2" = "Type 1" "4" = "Gestational" "8" = "Other" "9" ="Unclassified"
4	dka_hhs_flag	char(1)	Indication on whether the patient has a history of Diabetic Ketoacidosis/ Hyperglycemic hyperosmolar state	"1" = "Yes" "2" = "No" "3" = "Not known"
6	family_dm_flag	char(1)	Indication on a positive family history of Diabetes Mellitus	"Y" = "Yes" "N" = "No" "U" = "Not known"
7	father_dm_flag	char(1)	Indication on a positive family history of Diabetes Mellitus – Father	"Y" = "Yes" "N" = "No"
8	mother_dm_flag	char(1)	Indication on a positive family history of Diabetes Mellitus – Mother	"Y" = "Yes" "N" = "No"
9	sibling_dm_flag	char(1)	Indication on a positive family history of Diabetes Mellitus – Sibling(s)	"Y" = "Yes" "N" = "No"
10	sibling_dm_affect	integer	Family history of Diabetes Mellitus – Number of sibling(s) affected	
11	sibling_dm_total	integer	Family History of Diabetes Mellitus – Number of sibling(s) in total	

[5] Diabetes Mellitus Complication Screening dataset is only available for EXPERT service.

12	child_dm_flag	char(1)	Indication on a positive family history of Diabetes Mellitus – Child(ren)	"Y" = "Yes" "N" = "No"
13	child_dm_affect	integer	Family History of Diabetes Mellitus – Number of child(ren) affected	
14	child_dm_total	integer	Family History of Diabetes Mellitus – Number of child(ren) in total	
15	other_dm_hx_flag	char(1)	Indication on a positive family history of Diabetes Mellitus – Others (DMCS)	"Y" = "Yes" "N" = "No"
174	ht_flag	char(1)	Diagnosis on Hypertension	"Y" = "Yes" "N" = "No"
175	ht_dx_year_dtm	datetime year to fraction(3)	Date of diagnosis of Hypertension (up to month)	YYYY-MM-01
176	ht_family_hx_flag	char(1)	Indication on any history of Hypertension with first-degree relatives	"Y" = "Yes" "N" = "No" "U" = "Not known"
189	family_hx_premat_cvd_flag	char(1)	Indication on any first degree relative(s) having Ischemic Heart Disease under 55 years of age for male or under 65 years of age for female	"Y" = "Yes" "N" = "No" "U" = "Not known"
16	smoke_status_cd	char(1)	Smoking status of patient	"1" = Non-smoker "2" = "Current Smoker" "3" = "Ex-smoker" "4" = "Passive Smoker" "5" = "Not known"
17	cig_per_day	Integer	Number of cigarette(s) smoked per day	
18	smoke_yr	Integer	Number of years of smoking	
19	smoke_mbr	Integer	Number of smoking family members	
20	smoke_total_mbr	Integer	Total number of family members	
21	smoke_in_work	Integer	Total number of smokers in the workplace	

22	alcohol_status_cd	char(1)	Alcohol drinking habit of patient	“1” = “Non-drinker” “2” = “Current Drinker” “3” = “Social Drinker” “4” = “Ex-drinker” “5” = “Not known”
191	phy_act_mod_inten_cd	char(1)	Patient’s habit in performing physical activity of moderate intensity	“1” = “None” “2” = “< 150 mins per week” “3” = “At least 150 mins per week”
192	anti_diabetic_drug_flag	char(1)	Indication on whether the patient is currently on anti-diabetic drug(s)	“Y” = “Yes” “N” = “No” “U” = “Not known”
25	insulin_flag	char(1)	Indication on whether the patient is currently on insulin treatment	“Y” = “Yes” “N” = “No” “U” = “Not known”
26	inject_site_flag	char(1)	Indication on whether the injection site(s) is/are abnormal	“Y” = “Yes” “N” = “No” “U” = “Not known”
27	oha_flag	char(1)	Indication on whether the patient is currently taking Oral Hypoglycemic Agents	“Y” = “Yes” “N” = “No” “U” = “Not known”
28	su_flag	char(1)	Indication on whether the patient is currently on Sulfonylurea	“Y” = “Yes” “N” = “No” “U” = “Not known”
29	metf_flag	char(1)	Indication on whether the patient is currently on Metformin	“Y” = “Yes” “N” = “No” “U” = “Not known”
30	gluco_flag	char(1)	Indication on whether the patient is currently on Glucosidase inhibitor	“Y” = “Yes” “N” = “No” “U” = “Not known”
31	glita_flag	char(1)	Indication on whether the patient is currently on Glitazone	“Y” = “Yes” “N” = “No” “U” = “Not known”
32	megl_flag	char(1)	Indication on whether the patient is currently on Meglitinide	“Y” = “Yes” “N” = “No” “U” = “Not known”
33	anti_htn_flag	char(1)	Indication on whether the patient is currently on anti-hypertensive drug(s)	“Y” = “Yes” “N” = “No” “U” = “Not known”
193	anti_platelet_drug_flag	char(1)	Indication on whether the patient is currently on anti-platelet drug(s)	“Y” = “Yes” “N” = “No” “U” = “Not known”

36	anti_lipid_flag	char(1)	Indication on whether the patient is currently on lipid lowering drug(s)	"Y" = "Yes" "N" = "No" "U" = "Not known"
34	anti_isch_flag	char(1)	Indication on whether the patient is currently on anti-ischaemic drug(s) [6]	"Y" = "Yes" "N" = "No" "U" = "Not known"
35	anti_chf_flag	char(1)	Indication on whether the patient is currently on anti-congestive heart failure drug(s) [6]	"Y" = "Yes" "N" = "No" "U" = "Not known"
37	self_monitor_cd	char(1)	Type(s) of self-monitoring test(s) performed per week (if any)	"B" = "Blood" "U" = "Urine" "A" = "Both blood and urine" "N" = "None"
38	stand_s_bp	integer	Standing systolic blood pressure in mmHg [7]	
39	stand_d_bp	integer	Standing diastolic blood pressure in mmHg [7]	
40	lying_s_bp	integer	Lying systolic blood pressure in mmHg [7]	
41	lying_d_bp	integer	Lying diastolic blood pressure in mmHg [7]	
42	right_s_bp	integer	Systolic blood pressure of right arm in mmHg [7]	
43	right_d_bp	integer	Diastolic blood pressure of right arm in mmHg [7]	
44	left_s_bp	integer	Systolic blood pressure of left arm in mmHg [7]	
45	left_d_bp	integer	Diastolic blood pressure of left arm in mmHg [7]	
46	systolic_bp	integer	Systolic blood pressure in mmHg	
47	diastolic_bp	integer	Diastolic blood pressure in mmHg	
48	weight	float	Body weight in kilogram (kg)	
49	height	float	Body height in meter (m)	
50	bmi	float	Body mass index (kg/m^2)	
51	waist	integer	Waist circumference in centimeter (cm)	
52	hip	integer	Hip circumference in centimeter (cm)	

[6] The data field was obsolete after 2014.

[7] The data was available since 2007.

53	whr	float	Waist-hip ratio	
54	abdomen	float	Skinfold thickness of abdomen in millimeter (mm) [8]	
55	arm	float	Skinfold thickness of arm in millimeter (mm) [8]	
56	subscapular	float	Skinfold thickness of subscapular in millimeter (mm) [8]	
57	periodontitis_flag	char(1)	Indication on whether the patient has periodontitis	1 - Yes 2 - No 3 - Not known
58	cxr_cd	char(1)	Result of recent CXR taken	N - Normal A - Abnormal O - Other
59	ecg_cd	char(1)	Result of recent ECG	N - Normal A - Abnormal O - Other
74	malb_flag	char(1)	Result of urine dipstix test	“Y” = “Positive” “N” = “Negative” “U” = “Not known”
75	urine_alb_flag	char(1)	Indication of positive urine albumin	“Y” = “Positive” “N” = “Negative” “U” = “Not known”
76	urine_rbc_flag	char(1)	Indication of positive urine RBC dipstix	“Y” = “Yes” “N” = “No” “U” = “Not known”
77	urine_ketone_flag	char(1)	Indication of positive urine Ketone dipstix	“Y” = “Yes” “N” = “No” “U” = “Not known”
331	last_lab_result_dtm	datetime year to fraction(3)	Last laboratory result retrieval date (up to month)	YYYY-MM-01
60	hba1c	float	Latest HbA1c result from ePR within one year (%)	
194	hba1c_ind	char(1)	Indication of latest HBA1c result	“0” = “Normal” “1” = “High” “2” = “Low”
195	hba1c_ref_dtm	datetime year to fraction(3)	Reference date of latest HBA1c result (up to month)	YYYY-MM-01
61	fasting_gc	float	Latest Fasting glucose result from ePR within one year (mmol/L)	

[8] The data field was obsolete after 2018.

196	fasting_glucose_ind	char(1)	Indication of latest fasting glucose result	“0” = “Normal” “1” = “High” “2” = “Low”
197	fasting_glucose_ref_dtm	datetime year to fraction(3)	Reference date of latest total cholesterol result (up to month)	YYYY-MM-01
62	total_clt	float	Latest total cholesterol result from ePR within one year (mmol/L)	
198	total_cholesterol_ind	char(1)	Indication of latest total cholesterol result	“0” = “Normal” “1” = “High” “2” = “Low”
199	total_cholesterol_ref_dtm	datetime year to fraction(3)	Reference date of latest total cholesterol result (up to month)	YYYY-MM-01
63	ldl_c	float	Latest LDL - C result from ePR within one year (mmol/L)	
200	ldl_c_ind	char(1)	Indication of latest LDL - C result	“0” = “Normal” “1” = “High” “2” = “Low”
201	ldl_c_ref_dtm	datetime year to fraction(3)	Reference date of latest LDL - C result (up to month)	YYYY-MM-01
64	hdl_c	Float	Latest HDL - C result from ePR within one year (mmol/L)	
202	hdl_c_ind	char(1)	Indication of latest HDL - C result	“0” = “Normal” “1” = “High” “2” = “Low”
203	hdl_c_ref_dtm	datetime year to fraction(3)	Reference date of latest HDL - C result (up to month)	YYYY-MM-01
65	triglyceride	Float	Latest Triglyceride result from ePR within one year (mmol/L)	
204	triglyceride_ind	char(1)	Indication of latest Triglyceride result	“0” = “Normal” “1” = “High” “2” = “Low”
205	triglyceride_ref_dtm	datetime year to fraction(3)	Reference date of latest Triglyceride result (up to month)	YYYY-MM-01
66	serum_k	float	Latest Serum K result from ePR within one year (mmol/L)	
206	serum_k_ind	char(1)	Indication of latest Serum K result	“0” = “Normal” “1” = “High” “2” = “Low”

207	serum_k_ref_dtm	datetime year to fraction(3)	Reference date of latest Serum K result (up to month)	YYYY-MM-01
67	creatinine	integer	Latest Serum Creatinine result from ePR within one year (umol/L)	
208	creatinine_ind	char(1)	Indication of latest Serum Creatinine result	"0" = "Normal" "1" = "High" "2" = "Low"
209	creatinine_ref_dtm	datetime year to fraction(3)	Reference date of latest Serum Creatinine result (up to month)	YYYY-MM-01
68	egfr	integer	Latest eGFR result from ePR within one year [9]	
210	egfr_ref_dtm	datetime year to fraction(3)	Reference date of latest eGFR result (up to month) [9]	YYYY-MM-01
211	calc_egfr	integer	Latest calculated eGFR result from ePR within one year (ml/min/1.73m^2)	
212	calc_egfr_ref_dtm	datetime year to fraction(3)	Reference date of latest calculated eGFR result (up to month)	YYYY-MM-01
72	creatinine_clear	integer	Latest Creatinine clearance result from ePR within one year (ml/mm)	
223	creatinine_clearance_ind	char(1)	Indication of latest Creatinine clearance result	"0" = "Normal" "1" = "High" "2" = "Low"
224	creatinine_clearance_ref_dtm	datetime year to fraction(3)	Reference date of latest Creatinine clearance result (up to month)	YYYY-MM-01
73	proteinuria	float	Latest Proteinuria result from ePR within one year (g/d)	
213	proteinuria_ind	char(1)	Indication of latest Proteinuria result	"0" = "Normal" "1" = "High" "2" = "Low"
214	proteinuria_ref_dtm	datetime year to fraction(3)	Reference date of latest Proteinuria result (up to month)	YYYY-MM-01
71	albumin	integer	Latest Albumin excretion rate result from ePR within one year (mg/d)	

[9] The data field was obsolete after 2014.

215	albumin_ind	char(1)	Indication of latest Albumin excretion rate result	“0” = “Normal” “1” = “High” “2” = “Low”
216	albumin_ref_dtm	datetime year to fraction(3)	Reference date of latest Albumin excretion rate result (up to month)	YYYY-MM-01
69	urine_alb	float	Latest Urine alb / Cr ratio result from ePR within one year (mg/mmol)	
217	urine_alb_ind	char(1)	Indication of latest Urine alb / Cr ratio result	“0” = “Normal” “1” = “High” “2” = “Low”
218	urine_alb_ref_dtm	datetime year to fraction(3)	Reference date of latest Urine alb / Cr ratio result (up to month)	YYYY-MM-01
70	urine_alb_con	float	Latest urine albumin concentration result from ePR within one year (mg/L)	
219	urine_alb_con_ind	char(1)	Indication of latest urine albumin concentration result	“0” = “Normal” “1” = “High” “2” = “Low”
220	urine_alb_con_ref_dtm	datetime year to fraction(3)	Reference date of latest urine albumin concentration result (up to month)	YYYY-MM-01
187	urine_cr_ratio	Float	Latest urine protein / Cr ratio result from ePR within one year (mg/mg Cr)	
221	urine_cr_ratio_ind	char(1)	Indication of latest urine protein / Cr ratio result	“0” = “Normal” “1” = “High” “2” = “Low”
222	urine_cr_ratio_ref_dtm	datetime year to fraction(3)	Reference date of latest urine protein / Cr ratio result (up to month)	YYYY-MM-01
177	hb	float	Latest Hb result from ePR within one year (g/dL)	
225	hb_ind	char(1)	Indication of latest Hb result	“0” = “Normal” “1” = “High” “2” = “Low”
226	hb_ref_dtm	datetime year to fraction(3)	Reference date of latest Hb result (up to month)	YYYY-MM-01

178	hct	float	Latest Hct result from ePR within one year	
227	hct_ind	char(1)	Indication of latest Hct result	“0” = “Normal” “1” = “High” “2” = “Low”
228	hct_ref_dtm	datetime year to fraction(3)	Reference date of latest Hct result (up to month)	YYYY-MM-01
239	eye_assess_dtm	datetime year to fraction(3)	Assessment date for eye examination (up to month)	YYYY-MM-01
93	assess_by_cd	char(1)	Eye assessment done by	“1” = “N/A” “2” = “Fundoscopy by physician” “3” = “Fundus photo reviewed by physician” “4” = “Ophthalmologist” “6” = “Optometrist”
94	retina_sum_cd	char(1)	Diabetic retinopathy summary after assessment of single or both eyes	“1” = “No retinopathy” “2”= “Non sight threatening retinopathy” “3” = “Sight threatening retinopathy” “4” = “Advanced DM eye disease” “5” = “Currently under ophthalmologist follow up” “U” = “Not known”
183	uof_flag	char(1)	Indication on whether the patient is currently under follow-up by an ophthalmologist	“Y” = “Yes” “N” = “No” “U” = “Not known”
179	mydriatic_use_r_flag	char(1)	Indication of Mydriatic used at right eye	“Y” = “Yes” “N” = “No”
180	mydriatic_use_l_flag	char(1)	Indication of Mydriatic used at left eye	“Y” = “Yes” “N” = “No”
237	glaucoma_r_flag	char(1)	Indication of history of right eye glaucoma	“Y” = “Yes” “N” = “No” “U” = “Not known”
238	glaucoma_l_flag	char(1)	Indication of history of left eye glaucoma	“Y” = “Yes” “N” = “No” “U” = “Not known”
78	vis_acuity_r	float	Best visual acuity of right eye	

79	vis_acuity_l	float	Best visual acuity of left eye	
229	pres_cataract_r_flag	char(1)	Indication of presence of cataract at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
233	pres_cataract_l_flag	char(1)	Indication of presence of cataract at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
80	cataract_r_flag	char(1)	Indication of cataract at right eye [10]	"Y" = "Yes" "N" = "No" "U" = "Not known"
81	cataract_l_flag	char(1)	Indication of cataract at left eye [10]	"Y" = "Yes" "N" = "No" "U" = "Not known"
82	cataract_ext_r_flag	char(1)	Indication of cataract extracted at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
83	cataract_extr_l_flag	char(1)	Indication of cataract extracted at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
230	retina_vis_r_flag	char(1)	Indication of gradable fundus photo at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
234	retina_vis_l_flag	char(1)	Indication of gradable fundus photo at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
86	maculopathy_r_flag	char(1)	Indication of macular edema or diabetes related lesions at macula at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
87	maculopathy_l_flag	char(1)	Indication of macular edema or diabetes related lesions at macula at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
242	maculo_exu_isch_r_flag	char(1)	Indication of severe Maculopathy secondary to macular non-perfusion or chronic exudation at right eye	"Y" = "Yes" "N" = "No"
243	maculo_exu_isch_l_flag	char(1)	Indication of severe Maculopathy secondary to macular non-perfusion or chronic exudation at left eye	"Y" = "Yes" "N" = "No"

[10] The data field was obsolete after 2014.

240	tra_retin_detach_r_flag	char(1)	Indication of tractional retinal detachment at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
241	tra_retin_detach_l_flag	char(1)	Indication of tractional retinal detachment at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
244	neovascu_glauc_r_flag	char(1)	Indication of Neovascular Glaucoma at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
245	neovascu_glauc_l_flag	char(1)	Indication of Neovascular Glaucoma at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
232	grade_diab_retin_r_cd	char(1)	Grade of diabetic retinopathy at right eye	"1" = "No DR" "2" = "Mild NPDR" "3" = "Moderate NPDR" "4"= "Severe NPDR" "5" = "PDR"
236	grade_diab_retin_l_cd	char(1)	Grade of diabetic retinopathy at left eye	"1" = "No DR" "2" = "Mild NPDR" "3" = "Moderate NPDR" "4"= "Severe NPDR" "5" = "PDR"
88	laser_r_flag	char(1)	Indication of laser for diabetic retinopathy at right eye [11]	"Y" = "Yes" "N" = "No" "U" = "Not known"
89	laser_l_flag	char(1)	Indication of laser for diabetic retinopathy at left eye [11]	"Y" = "Yes" "N" = "No" "U" = "Not known"
231	vitrectomy_r_flag	char(1)	Indication of vitrectomy at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
235	vitrectomy_l_flag	char(1)	Indication of vitrectomy at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
246	anti_vegf_rx_r_flag	char(1)	Indication of anti-Vascular Endothelial Growth Factor (VEGF) Therapy (Rx) at right eye	"Y" = "Yes" "N" = "No" "U" = "Not known"
247	anti_vegf_rx_l_flag	char(1)	Indication of anti-Vascular Endothelial Growth Factor (VEGF) Therapy (Rx) at left eye	"Y" = "Yes" "N" = "No" "U" = "Not known"

[11] Data is available from October 2013 onwards.

181	hrg_r_cd	char(1)	Grade of hypertensive retinopathy of right eye	"1" = "No HR" "2" = "Mild HR" "3" = "Moderate HR" "4" = "Severe HR"
182	hrg_l_cd	char(1)	Grade of hypertensive retinopathy of left eye	"1" = "No HR" "2" = "Mild HR" "3" = "Moderate HR" "4" = "Severe HR"
90	glaucoma_flag	char(1)	Indication of glaucoma at either eye [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"
91	dmr_r_flag	char(1)	Indication of diabetic retinopathy at right eye [12]	"1" = "Nil" "2" = "NPDR" "3" = "Pre-PDR" "4" = "PDR" "5" = "Not known"
92	dmr_l_flag	char(1)	Indication of diabetic retinopathy at left eye [12]	"1" = "Nil" "2" = "NPDR" "3" = "Pre-PDR" "4" = "PDR" "5" = "Not known"
84	retina_r_flag	char(1)	Indication on right retina not being visualized [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"
85	retina_l_flag	char(1)	Indication of left retina not being visualized [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"
95	either_vis_acuity	float	Best visual acuity of either eye [12]	
96	i_cataract_flag	char(1)	Indication of cataract at either eye [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"
97	i_cataract_ext_flag	char(1)	Indication of cataract extracted at either eye [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"
98	i_retina_flag	char(1)	Indication on either retina not being visualized [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"
99	i_maculo_flag	char(1)	Indication of maculopathy at either eye [12]	"Y" = "Yes" "N" = "No" "U" = "Not known"

[12] The data field was obsolete after 2014.

100	i_laser_flag	char(1)	Indication of laser scars or vitrectomy at either eye [13]	"Y" = "Yes" "N" = "No" "U" = "Not known"
101	i_dmr_cd	char(1)	Indication of diabetic retinopathy at either eye [13]	"1" = "Nil" "2" = "NPDR" "3" = "Pre-PDR" "4" = "PDR" "5" = "Not known"
272	feet_assessment_dtm	datetime year to fraction(3)	Date of lower limb assessment (up to month)	YYYY-MM-01
122	footwear_r_flag	char(1)	Indication of footwear problem of right foot	"Y" = "Yes" "N" = "No" "U" = "Not known"
123	footwear_l_flag	char(1)	Indication of footwear problem of left foot	"Y" = "Yes" "N" = "No" "U" = "Not known"
251	monofilament_test_r_cd	char(1)	Protective sensation of right lower limb [14]	"1" = "Normal" "2" = "Abnormal"
263	monofilament_test_l_cd	char(1)	Protective sensation of left lower limb [14]	"1" = "Normal" "2" = "Abnormal"
253	hz_tuning_fork_r_cd	char(1)	Abnormal vibration sense measured by 128 Hz tuning fork for right lower limb	"1" = "Normal" "2" = "Diminished" "3" = "Absent"
265	hz_tuning_fork_l_cd	char(1)	Abnormal vibration sense measured by 128 Hz tuning fork for left lower limb	"1" = "Normal" "2" = "Diminished" "3" = "Absent"
104	tun_fork_r	integer	Abnormal vibration sense measured in graduated tuning fork for right lower limb	
105	tun_fork_l	integer	Abnormal vibration sense measured in graduated tuning fork for left lower limb	
102	vpt_r	integer	Abnormal vibration sense measured in V with biothesiometer for right lower limb	

[13] The data field was obsolete after 2014.

[14] If protective sensation is absent, the patient is at risk for developing a neuropathic ulcer.

103	vpt_l	integer	Abnormal vibration sense measured in V with biothesiometer for left lower limb	
252	abn_vib_sense_r_flag	char(1)	Indication of abnormal vibration sense at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
264	abn_vib_sense_l_flag	char(1)	Indication of abnormal vibration sense at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
254	achilles_reflexes_r_cd	char(1)	Indication of presence of achilles reflexes reflect neuropathy at right lower limb	“1” = “Present” “2” = “Present with reinforcement” “3” = “Absent”
266	achilles_reflexes_l_cd	char(1)	Indication of presence of achilles reflexes reflect neuropathy at left lower limb	“1” = “Present” “2” = “Present with reinforcement” “3” = “Absent”
110	pinprick_r_flag	char(1)	Indication of reduced / impaired pinprick sensation at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
111	pinprick_l_flag	char(1)	Indication of reduced / impaired pinprick sensation at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
249	abn_temp_r_flag	char(1)	Indication of warm and cool feelings at right lower limb (To compare the quality of temperature sensation on arms, face, trunk)	“Y” = “Yes” “N” = “No” “U” = “Not known”
261	abn_temp_l_flag	char(1)	Indication of warm and cool feelings at left lower limb (To compare the quality of temperature sensation on arms, face, trunk)	“Y” = “Yes” “N” = “No” “U” = “Not known”
124	nail_path_r_flag	char(1)	Indication of nail pathology at right foot	“Y” = “Yes” “N” = “No” “U” = “Not known”
125	nail_path_l_flag	char(1)	Indication of nail pathology at left foot	“Y” = “Yes” “N” = “No” “U” = “Not known”
114	deformity_r_flag	char(1)	Indication of claw toes, hammer toes, crossed toes, bunion or bony prominences at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”

115	deformity_l_flag	char(1)	Indication of claw toes, hammer toes, crossed toes, bunion or bony prominences at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
116	callosity_r_flag	char(1)	Indication of corns, callus, high pressure sports at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
117	callosity_l_flag	char(1)	Indication of corns, callus, high pressure sports at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
118	skin_infect_r_flag	char(1)	Indication of skin infection at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
119	skin_infect_l_flag	char(1)	Indication of skin infection at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
250	fissure_r_flag	char(1)	Indication of cracks or fissures at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
262	fissure_l_flag	char(1)	Indication of cracks or fissures at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
128	isch_r_flag	char(1)	Indication of dependency rubor, loss of skin hair, atrophic skin or toe nails at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
129	isch_l_flag	char(1)	Indication of dependency rubor, loss of skin hair, atrophic skin or toe nails at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
248	hist_ulcer_r_flag	char(1)	Indication of history of ulcer or amputation which is not due to trauma at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
260	hist_ulcer_l_flag	char(1)	Indication of history of ulcer or amputation which is not due to trauma at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
108	ulcer_r_flag	char(1)	Indication of active ulceration at time of examination at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
109	ulcer_l_flag	char(1)	Indication of active ulceration at time of examination at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”

255	revascularization_r_flag	char(1)	Indication of history of peripheral revascularization at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
267	revascularization_l_flag	char(1)	Indication of history of peripheral revascularization at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
256	claudication_r_flag	char(1)	Indication of pain or discomfort at right lower limb, worsened by exercise and relieved with rest	“Y” = “Yes” “N” = “No” “U” = “Not known”
268	claudication_l_flag	char(1)	Indication of pain or discomfort at left lower limb, worsened by exercise and relieved with rest	“Y” = “Yes” “N” = “No” “U” = “Not known”
257	rest_pain_r_flag	char(1)	Indication of pain at right foot even when not walking	“Y” = “Yes” “N” = “No” “U” = “Not known”
269	rest_pain_l_flag	char(1)	Indication of pain at left foot even when not walking	“Y” = “Yes” “N” = “No” “U” = “Not known”
112	absent_foot_r_flag	char(1)	Indication of pulse abnormality of both posterior tibial and dorsalis pedis at right lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
113	absent_foot_l_flag	char(1)	Indication of pulse abnormality of both posterior tibial and dorsalis pedis at left lower limb	“Y” = “Yes” “N” = “No” “U” = “Not known”
134	ankle_s_bp_r	integer	Ankle systolic blood pressure of right lower limb	
135	ankle_s_bp_l	integer	Ankle systolic blood pressure of left lower limb	
258	brachial_s_bp_r	integer	Brachial systolic blood pressure of right upper limb	
270	brachial_s_bp_l	integer	Brachial systolic blood pressure of left upper limb	
259	abi_r	float	Ankle-Brachial Index of right lower limb (Ratio of blood pressure in lower limb to blood pressure in upper limb)	

271	abi_l	float	Ankle-Brachial Index of left lower limb (Ratio of blood pressure in lower limb to blood pressure in upper limb)	
106	numbness_r_flag	char(1)	Indication of numbness at right foot [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
107	numbness_l_flag	char(1)	Indication of numbness at left foot [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
120	ljm_r_flag	char(1)	Indication of loss of right foot joint mobility [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
121	ljm_l_flag	char(1)	Indication of loss of left foot joint mobility [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
126	amputation_r_flag	char(1)	Indication of previous ulcer/amputation at right foot [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
127	amputation_l_flag	char(1)	Indication of previous ulcer/amputation at left foot [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
130	temp_r_cd	char(1)	Temperature of right foot [15]	"1" = "Normal" "2" = "Abnormal"
131	temp_l_cd	char(1)	Temperature of left foot [15]	"1" = "Normal" "2" = "Abnormal"
132	ankle_jerks_r_cd	char(1)	Indication of presence of ankle jerks at right foot [15]	"1" = "Present" "2" = "Present with reinforcement" "3" = "Absent"
133	ankle_jerks_l_cd	char(1)	Indication of presence of ankle jerks at left foot [15]	"1" = "Present" "2" = "Present with reinforcement" "3" = "Absent"
136	pvd_flag	char(1)	Indication of peripheral vascular disease at lower limb [15]	"Y" = "Yes" "N" = "No" "U" = "Not known"
137	foot_cat_cd	char(1)	Foot risk category [15]	"1" = "Low risk" "2" = "At risk" "3" = "High risk"

[15] The data field was obsolete after 2014.

138	echd_flag	char(1)	Indication of typical angina, ischemic heart disease confirmed with diagnostic tests, history of Myocardial Infarction, Percutaneous Transluminal Coronary Angioplasty, Coronary Artery Bypass Graft	“Y” = “Yes” “N” = “No” “U” = “Not known”
139	chf_flag	char(1)	Indication of shortness of breath, leg swelling and exercise intolerance with or without diagnosed with echocardiography	“Y” = “Yes” “N” = “No” “U” = “Not known”
145	tb_hx_flag	char(1)	Indication on whether the patient has a history of tuberculosis	“Y” = “Yes” “N” = “No” “U” = “Not known”
146	dialysis_flag	char(1)	Indication on whether the patient is undergoing / has undergone renal dialysis	“Y” = “Yes” “N” = “No” “U” = “Not known”
273	transplant_flag	char(1)	Indication on whether the patient is undergoing / has undergone renal transplant	“Y” = “Yes” “N” = “No” “U” = “Not known”
140	stroke_hx_flag	char(1)	Indication of history of cerebrovascular disease	“Y” = “Yes” “N” = “No” “U” = “Not known”
141	cva_haem_flag	char(1)	Indication of history of intracerebral haemorrhage and subarachnoid haemorrhage	“Y” = “Yes” “N” = “No”
142	cva_isch_flag	char(1)	Indication of history of cerebral thrombosis	“Y” = “Yes” “N” = “No”
143	cva_unk_flag	char(1)	Indication of history of stroke but not able to confirm whether it is haemorrhagic or ischaemic origin	“Y” = “Yes” “N” = “No”
163	malignancy_flag	char(1)	Diagnosis of malignancy	“Y” = “Yes” “N” = “No” “U” = “Not known”
274	malignancy_active_flag	char(1)	Indication of active malignancy	“Y” = “Yes” “N” = “No”
275	malignancy_palliative_flag	char(1)	Indication of palliative treatment for malignancy	“Y” = “Yes” “N” = “No”

276	malignancy_pasthx_flag	char(1)	Indication of history of malignancy	"Y" = "Yes" "N" = "No"
154	angina_flag	char(1)	Indication of angina [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
155	acs_flag	char(1)	Indication of acute coronary syndrome [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
156	cabg_flag	char(1)	Indication of coronary artery bypass graft / angioplasty [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
157	stroke_recover_flag	char(1)	Indication of stroke with full recovery [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
158	complete_stroke_flag	char(1)	Indication of completed stroke [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
159	laba_flag	char(1)	Indication of below ankle amputation [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
160	laaa_flag	char(1)	Indication of above ankle amputation [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
161	claudication_flag	char(1)	Indication of claudication [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
162	tx_for_pvd_flag	char(1)	Indication of treatment for peripheral vascular disease (Bypass / angioplasty is done) [16]	"Y" = "Yes" "N" = "No" "U" = "Not known"
307	nut_assessment_dtm	datetime year to fraction(3)	Date of diet assessment (up to month)	YYYY-MM-01
277	nut_consis_carbo_cd	char(1)	Indication on amount of carbohydrates consistently consumed by the patient	"1" = "Good" "2" = "Fair" "3" = "Poor" "4" = "N/A"
278	nut_carbo_regular_cd	char(1)	Indication on regular consumption of carbohydrates by the patient	"1" = "Good" "2" = "Fair" "3" = "Poor" "4" = "N/A"

[16] The data field was obsolete after 2014.

279	nut_meal_appropr_cd	char(1)	Indication on appropriate spacing between meals	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
280	nut_low_gly_food_cd	char(1)	Indication on food consumption outside the spectrum of white bread, white rice, corn flakes, extruded breakfast cereals, glucose, maltose	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
281	nut_incl_veg_fru_whole_cd	char(1)	Indication on consumption of vegetables, fruits, wholegrains	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
282	nut_healthy_cook_tech_cd	char(1)	Indication on minimal use of cooking oil, salt, seasonings	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
283	nut_appropr_restau_menu_cd	char(1)	Indication on appropriate selection from restaurant menu	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
284	nut_use_food_label_cd	char(1)	Indication on making reference to food labels for healthful food choices	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
285	nut_adjust_insulin_cd	char(1)	Indication on adjustment of insulin level to match with carbohydrate intake	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
286	nut_food_appropr_sick_cd	char(1)	Indication on food selection when the patient is sick	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
287	nut_food_appropr_hypogly_cd	char(1)	Indication on food selection when the patient has the feeling of hypoglycaemia	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
288	nut_adjust_carbo_exer_cd	char(1)	Indication on adjustment of carbohydrates when the patient is having exercise	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”
289	nut_adjust_carbo_alcohol_cd	char(1)	Indication on adjustment of insulin level and carbohydrates when the patient is having alcohol	“1” = “Good” “2” = “Fair” “3” = “Poor” “4” = “N/A”

291	cmp_nutpre_energy_cd	char(1)	Energy	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
292	cmp_nutpre_ttlfat_cd	char(1)	Total fat	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
293	cmp_nutpre_satfat_cd	char(1)	Saturated fat	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
294	cmp_nutpre_tranfat_cd	char(1)	Trans fat	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
295	cmp_nutpre_cholest_cd	char(1)	Cholesterol	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
296	cmp_nutpre_protein_cd	char(1)	Protein	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
297	cmp_nutpre_carbo_cd	char(1)	Carbohydrate	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
298	cmp_nutpre_sugar_cd	char(1)	Sugar	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
299	cmp_nutpre_fibre_cd	char(1)	Fibre	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”
300	cmp_nutpre_sodium_cd	char(1)	Sodium	“1” = “As per meal plan” “2” = “Inadequate” “3” = “Excessive” “4” = “N/A”

301	med_nut_dia_diet_flag	char(1)	Indication on whether the patient is assigned with diabetics diet	“Y” = “Yes” “N” = “No”
302	med_nut_dia_diet_kcal	float	Diet designed for diabetic patients (kcal/day)	
303	med_nut_weight_reduce_flag	char(1)	Indication of diet designed for weight reduction	“Y” = “Yes” “N” = “No”
304	med_nut_dia_lipid_low_flag	char(1)	Indication of diet designed for lowering serum lipid level	“Y” = “Yes” “N” = “No”
305	med_nut_dia_stop_hyper_flag	char(1)	Indication on diet designed for better control of blood pressure	“Y” = “Yes” “N” = “No”
306	med_nut_others_flag	char(1)	Indication on other types of nutrition therapy	“Y” = “Yes” “N” = “No”
167	chd_flag	char(1)	Indication of typical angina, ischemic heart disease confirmed with diagnostic tests, history of myocardial infarction , percutaneous transluminal coronary angioplasty, coronary artery bypass graft	“Y” = “Yes” “N” = “No” “U” = “Not known”
168	stroke_flag	char(1)	Indication of history of cerebrovascular disease	“Y” = “Yes” “N” = “No” “U” = “Not known”
316	pad_flag	char(1)	Indication of peripheral arterial disease at lower limb	“Y” = “Yes” “N” = “No” “S” = “Suspected” “U” = “Not known”
308	risk_ht_retin_flag	char(1)	Indication of retinal complications due to severe blood pressure	“Y” = “Yes” “N” = “No” “U” = “Not known”
309	risk_diab_retin_cd	char(1)	Indication on retinal complications due to poor control of diabetes mellitus	“1” = “No retinopathy” “2” = “Non sight threatening retinopathy” “3” = “Sight threatening retinopathy” “4”= “Advanced eye disease” “U” = “Not known”

310	albuminuria_cd	char(1)	Albuminuria derived by deriving rules	“1” = “(A1) Normal” “2” = “(A2) Microalbuminuria” “3” = “(A3) Macroalbuminuria / Proteinuria” “U” = “Not known”
311	mod_albumin_cd	char(1)	If the system derived result of 'Albuminuria' was 'Not known', user can override the result by manually selecting the appropriate option.	“1” = “(A1) Normal” “2” = “(A2) Microalbuminuria” “3” = “(A3) Macroalbuminuria / Proteinuria” “U” = “Not known”
312	ckd_cd	char(1)	Chronic Kidney Disease derived by deriving rules	“1” = “G1 (Normal or high)” “2” = “G2 (Mildly decreased)” “3” = “G3a (Mildly to moderately decreased)” “4” = “G3b (Moderately to severely decreased)” “5” = “G4(Severely decreased)” “6” = “G5 (Kidney failure)” “U” = “Not known”
313	foot_risk_cat_cd	char(1)	Modified foot risk category according to American Diabetes Association	“0” = “no LOPS/PAD/hx of ulcer/amputation” “1” = “LOPS or LOPS with deformity” “2” = “PAD or PAD with LOPS” “3” = “History of ulcer or amputation” “U” = “Not known”
314	foot_pathology_flag	char(1)	Indication of pathology including deformity, dry skin, callus, infection, fissure, ischemic changes at lower limb(s)	“Y” = “Yes” “N” = “No” “U” = “Not known”
315	lops_flag	char(1)	Indication on loss of protective sensation	“Y” = “Yes” “N” = “No” “U” = “Not known”

317	hist_ulcer_amp_flag	char(1)	Indication of history of lower limb ulcer or amputation	"Y" = "Yes" "N" = "No" "U" = "Not known"
165	nephropathy_cd	char(1)	Type of kidney disease(s) caused by damage to small blood vessels, if any [17]	"M" = "Microalbuminuria" "P" = "Macroalbuminuria / proteinuria" "C" = "CKD" "E" = "ESRF" "U" = "Not known" "N" = "No" "I" = "Incipient" "O" = "Overt"
169	sum_smoke_flag	char(1)	Indication of smoking habit	"Y" = "Yes" "N" = "No" "U" = "Not known"
170	htn_flag	char(1)	Indication of: - "SBP = 140" or "DBP = 90" for non-diabetic patients; - "SBP = 130" or "DBP = 80" for diabetic patients or patient is having anti-hypertension drugs	"Y" = "Yes" "N" = "No" "U" = "Not known"
184	diabetes_cd	char(1)	Normal level for fasting blood glucose [18]	"N" = "No" "T" = "Impaired glucose tolerance" "I" = "Impaired fasting glucose" "Y" = "Yes" "U" = "Not known" "D" = "Diabetes"

[17] The data field was obsolete after 2014.

[18] Normal level for fasting blood glucose should be less than 5.6. Impaired Fasting Glucose is between 5.6 and 6.9. For diabetes, fasting blood glucose is 7 or above; or that the patient is on anti-diabetic drugs or insulin treatment.

171	obesity_flag	char(1)	Level of obesity [19]	"S" = "Severely obese" "M" = "Moderately obese" "O" = "Overweight" "N" = "Optimal" "D" = "Underweight" "U" = "Not known"
172	central_obesity_flag	char(1)	Indication on normal waist circumference [20]	"Y" = "Yes" "N" = "No" "U" = "Not known"
173	dyslipidaemia_flag	char(1)	Indication on consumption of lipid-lowering drugs; OR: - "LDL-C = 2.6 mmol/l", "TG = 1.7 mmol/l"; OR - "HDL-C < 1.0 mmol/l" for male / "HDL-C < 1.3 mmol/l" for female	"Y" = "Yes" "N" = "No" "U" = "Not known"
166	foot_problem_cd	char(1)	Overall risk level of foot problems [21]	"1" = "Low risk" "2" = "At risk" "3" = "High risk" "U" = "Not known"
186	risk_level_cd	char(1)	Overall risk level after assessment	"1" = "Low risk" "2" = "Medium risk" "3" = "High risk" "4" = "Very high risk" "5" = "Not known"
318	dietitian_everatt_flag	char(1)	Indication on having ever attended an appointment with a dietitian	"Y" = "Yes" "N" = "No"
319	dietitian_reqref_flag	char(1)	Indication on required referral to a dietitian	"Y" = "Yes" "N" = "No"

[19] The patient is severely obese if his/her Body Mass Index (BMI) is 32.5 or above; moderately obese if his/her BMI is between 27.5 and 32.5; overweight if his/her BMI is between 23 and 27.5; optimal if his/her BMI is between 18.5 and 23; underweight if his/her BMI is below 18.5. "Not known" is indicated if BMI is blank.

[20] The waist circumference is normal if it is 90 cm or above for male / 80 cm or above for female. "Not known" is indicated if waist circumference is blank.

[21] The data field was obsolete after 2014.

320	podiatrist_everatt_flag	char(1)	Indication on having ever attended an appointment with a podiatrist	"Y" = "Yes" "N" = "No"
321	podiatrist_reqref_flag	char(1)	Indication on required referral to a podiatrist	"Y" = "Yes" "N" = "No"
322	nurse_everatt_flag	char(1)	Indication on having ever attended an appointment with a nurse educator	"Y" = "Yes" "N" = "No"
323	nurse_reqref_flag	char(1)	Indication on required referral to a nurse educator	"Y" = "Yes" "N" = "No"
324	ophthalmologist_everatt_flag	char(1)	Indication on having ever attended an appointment with an Ophthalmologist	"Y" = "Yes" "N" = "No"
325	ophthalmologist_reqref_flag	char(1)	Indication on required referral to an Ophthalmologist	"Y" = "Yes" "N" = "No"
147	dietitian_attd_flag	char(1)	Indication on any attendance of appointment(s) with a Dietitian [22]	"Y" = "Yes" "N" = "No" "U" = "Not known"
148	dm_nurse_attd_flag	char(1)	Indication on any attendance of appointment(s) with a Diabetes Mellitus nurse [22]	"Y" = "Yes" "N" = "No" "U" = "Not known"
149	podiatrist_attd_flag	char(1)	Indication on any attendance of appointment(s) with a podiatrist [22]	"Y" = "Yes" "N" = "No" "U" = "Not known"
150	oph_flag	char(1)	Indication on any attendance of appointment(s) with an ophthalmologist [22]	"Y" = "Yes" "N" = "No" "U" = "Not known"
151	podiatrist_need_flag	char(1)	Indication on any referral to a podiatrist needed [22]	"Y" = "Yes" "N" = "No" "U" = "Not known"
152	oph_need_flag	char(1)	Indication on any referral to an ophthalmologist needed [22]	"Y" = "Yes" "N" = "No" "U" = "Not known"
153	share_care_cd	char(1)	Indication on enrolment status in Shared Care Programme [22]	"1" = "Already enrolled" "2" = "To be enrolled" "3" = "Not eligible"

[22] The data field was obsolete after 2014.

185	pep_flag	char(1)	Indication on enrolment status in Patient Empowerment Programme	"Y" = "Yes" "N" = "No"
326	nahc_wound_flag	char(1)	Indication of wound care at nurse and allied health clinics	"Y" = "Yes" "N" = "No"
327	pscc_flag	char(1)	Indication of Patient Support Call Centre	"Y" = "Yes" "N" = "No"
328	sccp_flag	char(1)	Indication of Smoking Counseling and Cessation Programme	"Y" = "Yes" "N" = "No"
329	nahx_flag	char(1)	Indication of Nurse and Allied Health Clinics Programme [23]	"Y" = "Yes" "N" = "No"
330	scp_flag	char(1)	Indication of Shared Care Programme [23]	"Y" = "Yes" "N" = "No"
333	pseudo_record_key	varchar(24)	Masked record key	
334	pseudo_episode_key	varchar(24)	Masked episode number	
335	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	
501	diff_in_hour_assessment_dtm	integer	Time difference (in hour) between the date of first metabolic risk assessment and the timestamp of the first appointment / admission [24]	A numeric value

[23] The data field was obsolete after September 2015 due to cessation of Programme.

[24] "diff_in_hour_assessment_dtm" is only available for EXPERT service.

Dataset id: **D03**

Dataset name: **Family Medicine - Patient Disease[25]**

File name: **fm_pat_disease.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	result_date	date	Date of the patient disease result (up to month)	YYYY-MM-01
501	diff_in_hour_result_dtm	integer	Time difference (in hour) between the date of the patient disease result and the timestamp of the first appointment / admission[26]	A numeric value
2	element_id	integer	Disease element	Refer to "Family Medicine - Mapping of Disease Element"
3	result	varchar(30)	Structured result of the disease element	Example: “99 [U/L]”, “Positive”
4	pseudo_record_key	varchar(64)	Masked record key of the patient disease element	
5	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[25] Family Medicine - Patient Disease dataset is only available for EXPERT service.

[26] “diff_in_hour_result_date” is only available for EXPERT service.

Dataset id: D04

Dataset name: Family Medicine – Consultation Note ICPC[27]

File name: fm_cn_problem.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
6	src_create_dtm	datetime year to fraction(3)	Creation date and time of the ICPC code (up to month)	YYYY-MM-01
501	diff_in_hour_creation_dtm	integer	Time difference (in hour) between the creation date time and the timestamp of the first appointment / admission [28]	A numeric value
1	icpc	varchar(4)	FM Module: Symptom or Illness (ICPC Code)	Refer to "Mapping of ICPC Code"
4	pseudo_record_key	varchar(152)	Masked record key	
5	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[27] Family Medicine – Consultation Note ICPC dataset is only available for EXPERT service.

[28] "diff_in_hour_creation_dtm" is only available for EXPERT service.

Dataset id: **D05**

Dataset name: **Immunization**

File name: **immu_data.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	injection_dtm	datetime year to fraction(3)	Injection date (up to month)	YYYY-MM-01
501	diff_in_hour_injection_dtm	integer	Time difference (in hours) between the injection date time and the timestamp of the first appointment / admission[29]	A numeric value
2	injection_cd	integer	Injection Code	Refer to "Immunization - Mapping of Vaccine"
3	status_cd	integer	Status of the vaccination	Refer to "Immunization - Mapping of Status"
5	pseudo_record_key	varchar(24)	Masked record key	
6	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[29] "diff_in_hour_injection_dtm" is only available for EXPERT service.

Dataset id: D06

Dataset name: Diagnosis Progress

File name: mdl_dx_progress.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	reference_dtm	datetime year to fraction(3)	Reference date of the diagnosis record (up to month) [30]	YYYY-MM-01
501	diff_in_hour_reference_dtm	integer	Time difference (in hour) between the reference date time and the timestamp of the first appointment / admission[31]	A numeric value
2	term_id	integer	Diagnosis Term ID	Refer to "Diagnosis Progress – Mapping of ICD-10"
3	final_rank	smallint	Indication on whether the diagnosis is a “principal diagnosis”	“1” = “principal diagnosis” Non “1” = “not principal diagnosis”
4	src_case_type	char(1)	Patient Type	“I” = “IP case” “O” = “OP case” “A” = “A&E case”
5	status_cd	char(1)	Status Code	“A” = “Active” “I” = “Inactive” “R” = “Resolved”
6	pseudo_record_key	varchar(44)	Masked record key	
7	pseudo_episode_key	varchar(24)	Masked episode number	
8	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[30] ”Reference_dtm” is the datetime of record creation. It will be replaced by discharge datetime for inpatient episodes and/or admission datetime for A&E episodes, if available.

[31] “diff_in_hour_reference_dtm” is only available for EXPERT service.

Dataset id: **D07**

Dataset name: **Procedure Progress**

File name: **mdl_px_progress.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
3	entry_dtm	datetime year to fraction(3)	Date of procedure (up to month)	YYYY-MM-01
501	diff_in_hour_entry_dtm	integer	Time difference (in hour) between the procedure date time and the timestamp of the first appointment / admission[32]	A numeric value
1	term_id	integer	Procedure Term ID	Refer to "Procedure Progress – Mapping of ICD-9-CM"
5	pseudo_record_key	varchar(44)	Masked record key	
7	pseudo_episode_key	varchar(24)	Masked episode number	
8	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[32] "diff_in_hour_entry_dtm" is only available for EXPERT service.

Dataset id: **D08**

Dataset name: **Outpatient Appointment and Attendance**

File name: **opas_case_data.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
3	appo_dtm	datetime year to fraction(3)	Appointment date (up to month)	YYYY-MM-01
503	diff_in_hour_appo_dtm	integer	Time difference (in hour) between the appointment date time and the timestamp of the first appointment / admission[33]	A numeric value
501	cal_appo_age_year	smallint	Age of the patient on the day of appointment [34]	
9	eis_spec_id	integer	HA-wide standardized specialty ID	Refer "Specialty Classification"
11	appo_type_ind	integer	Appointment Type	"0"= "First Attendant" "1"= "Follow-up" "2" ="Follow-up"
8	service_type_cd	varchar(4)	Service type	Refer to "Mapping of Service Type"
6	pay_cd_group	varchar(10)	Paycode (EIS)	"PA" = "Public Assistance" "OTH"= "Non-Public Assistance"
502	district_board	varchar(15)	District of residence	Refer to "Mapping of District of Residence"
12	pseudo_record_key	varchar(24)	Masked record key	
13	pseudo_episode_key	varchar(24)	Masked episode number	
14	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[33] "diff_in_hour_appo_dtm" is only available for EXPERT service.

[34] "cal_appo_age_year" is derived by dividing the difference between the "appo_dtm" and the patient's date of birth (in month) by a constant "365.25" and rounded down to the nearest whole number.

Dataset id: D09

Dataset name: Accident and Emergency Department Attendance

File name: aeis_case_data.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	admission_dtm	datetime year to fraction(3)	Accident and Emergency attendance date (up to month)	YYYY-MM-01
503	diff_in_hour_admission_dtm	integer	Time difference (in hour) between the attendance date time and the timestamp of the first appointment / admission[35]	A numeric value
11	dischg_dtm	datetime year to fraction(3)	Accident and Emergency discharge date (up to month) [36]	YYYY-MM-01
504	diff_in_hour_dischg_dtm	integer	Time difference (in hour) between the discharge date time and the timestamp of the first appointment / admission[37]	A numeric value
501	cal_adm_age_year	smallint	Age on attendance (year) [38]	
3	triage_cat_cd	char(1)	Triage category	Refer to "Accident and Emergency Department Attendance - Mapping of Triage Category"
5	ambulance_no_yesno	char(1)	Ambulance Case (Y/N)	"Y" = "Yes" "N" = "No"

[35] "diff_in_hour_admission_dtm" is only available for EXPERT service.

[36] "dischg_dtm" is only available for EXPERT service.

[37] "diff_in_hour_dischg_dtm" is only available for EXPERT service.

[38] "cal_adm_age_year" is derived by dividing the difference between the "admission_dtm" and the patient's date of birth (in month) by a constant "365.25" and rounded down to the nearest whole number.

505	dischg_cd	smallint	Type of case during discharge[39]	"1" = "Admit to own hospital" "2" = "Admit to other HA hospitals" "3" = "Home" "4 "= "Death" "5" = "Other"
502	district_board	varchar(15)	District of residence	Refer to "Mapping of District of Residence"
6	pseudo_record_key	varchar(24)	Masked record key	
7	pseudo_episode_key	varchar(24)	Masked episode number	
8	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[39] "dischg_cd" is only available for EXPERT service.

Dataset id: **D10**

Dataset name: **Episode Miscellaneous Information** [40]

File name: **map_case_misc_info.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
501	elderly_home_flag	char(1)	Indicator for Elderly Home	"Y"
2	pseudo_episode_key	varchar(24)	Masked episode number	

[40] Episode Miscellaneous Information dataset is only available for EXPERT service.

Dataset id: **D12**

Dataset name: **Inpatient Admission, Transfer & Discharge – Episode's Transaction**

File name: **ipas_case_data1.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
4	admission_dtm	datetime year to fraction(3)	Admission date (up to month)	YYYY-MM-01
503	diff_in_hour_admission_dtm	integer	Time difference (in hour) between the admission date time and the timestamp of the first appointment / admission[41]	A numeric value
6	dischg_dtm	datetime year to fraction(3)	Discharge Date (up to month)	YYYY-MM-01
13	total_los	smallint	Length of stay (in days) of discharge episode	
2	mvt_count	integer	A sequence number that is incremental in accordance with the patient movement within an episode [42]	
501	cal_adm_age_year	smallint	Age of the patient on the day of appointment [43]	
5	source_ind	char(1)	Admission source indicator	"3" – A&E referral "4" – OPD referral "5" – Transferred in "8" – New born "0" – Others
15	eis_spec_id	smallint	HA-wide standardized specialty ID	Refer to Specialty Classification
16	eis_sub_spec_id	smallint	HA-wide standardized sub-specialty ID	Refer to "Specialty Classification"
11	care_category_cd	varchar(20)	Ward Care Type	"AG" = "ACUTE" "CONV" = "Conv/Reh" "INF" = "Infirmary" "OTH" = "Others"

[41] "diff_in_hour_admission_dtm" is only available for EXPERT service.

[42] "mvt_count" is only available for EXPERT service.

[43] "cal_adm_age_year" is derived by dividing the difference between the "admission_dtm" and the patient's date of birth (in month) by a constant "365.25" and rounded down to the nearest whole number.

12	sub_care_categy_cd	varchar(20)	Ward Sub Care Type of the ACUTE ward care type	"GEN" = "General" "CONV" = "Conv/Reh" "INF" = "Infirmary" "ICU" = "Intensive Care Unit" "HDU" = "High Dependency Unit" "OTH" = "Others"
7	dischg_cd	char(1)	Type of case during discharge	"1" = "Transfer to other HA hospitals" "2" = "Discharged home" "3 "= "Death" "4" = "Other"
14	type	char(1)	Type of episode's transaction[44]	"A" = "Admission" "D" = "Discharge" "T" = "Transfer in" "O" = "Transfer out"
502	district_board	varchar(15)	District of residence	Refer to "Mapping of District of Residence"
17	pseudo_record_key	varchar(64)	Masked record key	
18	pseudo_episode_key	varchar(24)	Masked episode number	
19	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[44] "Transfer in" and "Transfer out" types are only available for EXPERT service.

Dataset id: **D13**

Dataset name: **Radiology Appointment** [45]

File name: **ris2_appt_data.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	exam_cd	varchar(15)	Standardized Examination Code scheduled in the examination	Example: “1301”, “4101”
2	exam_cd_lookup_key	varchar(44)	Masked reference key to Examination Details	Refer to “Mapping of Examination Details”
4	accession_no	varchar(24)	Unique identifier of the set of image study	
6	pseudo_record_key	varchar(64)	Masked record key	
7	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[45] Radiology Appointment dataset is only available for EXPERT service.

Dataset id: D14

Dataset name: Radiology Examination Result

File name: ris2_exam_result_data.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
5	exam_dtm	datetime year to fraction(3)	Date of patient registration for taking radiology examination (up to month)	YYYY-MM-01
502	diff_in_hour_exam_dtm	integer	Time difference (in hour) between the exam date time and the timestamp of the first appointment / admission[46]	A numeric value
1	exam_cd	varchar(15)	Standardized code of radiology examination	Example: “1301”, “4101”
2	exam_cd_lookup_key	varchar(44)	Masked reference key for looking up examination details	Refer to “Mapping of Examination Details”
3	attd_status_cd	char(2)	Examination status code	""“AT” = “Attended the appointment section” “OTH” = “Others”
501	cal_exam_age_yr	smallint	Age of patient on the day of appointment [47]	
8	accession_no	varchar(24)	Masked unique identifier of the set of image study [48]	Refer to “Radiology Image (DICOM)”
11	pseudo_record_key	varchar(44)	Masked record key to identify the radiology examination [49]	Refer to “Radiology Exam Report (TEXT)”
12	pseudo_episode_key	varchar(24)	Masked episode number assigned to the patient upon an examination request	
13	pseudo_episode_key2	varchar(24)	Masked episode number assigned to the patient upon attendance for the examination [50]	
14	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[46] “diff_in_hour_exam_dtm” is only available for EXPERT service.

[47] “cal_exam_age_yr” is derived by dividing the difference between the “exam_dtm” and the patient’s date of birth (in month) by a constant “365.25” and rounded down to the nearest whole number.

[48] “accession_no” is only available for EXPERT service.

[49] “pseudo_record_key” is only available for EXPERT service.

[50] Data is available from 2016 onwards.

Dataset id: D15

Dataset name: Medications - Dispensed Prescription

File name: phs_presc_data.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	disp_dtm	datetime year to fraction(3)	Dispensing date of drug items (up to month)	YYYY-MM-01
501	diff_in_hour_dispense_dtm	integer	Time difference (in hour) between the dispensing date time and the timestamp of the first appointment / admission[51]	A numeric value
2	item_cd	varchar(6)	Drug item code defined by HA Pharmacy Office [52]	Refer to "Mapping of Drug Item Code"
3	bnfno_p	varchar(11)	BNF Therapeutic Classification (code) of the drug item code	Refer to "Medications - Mapping of British National Formulary (BNF) Code"
20	presc_start_dtm	datetime year to fraction(3)	Prescription start date (up to month)	YYYY-MM-01
21	presc_end_dtm	datetime year to fraction(3)	Prescription end date (up to month)	YYYY-MM-01
22	presc_duration_day	smallint	The duration (in days) of a drug item dispensed	
4	phs_tran_status	char(1)	The transaction status of a dispensed record [53]	"I" = "Issued" "V" = "Vetted" "N" = "Keep record only"
14	route	varchar(7)	The route form of the drug intake by patient	Refer to "Medications - Mapping of Route"
9	disp_qty_abs	float	Total dispensed quantity of drug item	Any positive value
5	dosage_cd	varchar(6)	The dosage level of a drug item for each intake by the patient [54]	Example: "100 MG", "10"

[51] "diff_in_hour_dispense_dtm" is only available for EXPERT service.

[52] "Dressing", "Consumable" and "Medical Gas" are excluded.

[53] Suspended records are excluded. "phs_tran_status" is only available for EXPERT service.

[54] If 'dosage_cd' is blank, please refer to 'dosage_value' and 'disp_dos_unit' for dosage data.

12	mod_baseunit	varchar(4)	Base unit of drug item	Example: “GRAM”, “TAB”
15	dosage_value	decimal(19,4)	Dosage Value	
16	disp_dos_unit	varchar(15)	Dosage Unit	Example: “TABLET(S)”, “ML”
6	freq_cd	varchar(7)	The intake frequency of drug item by the patient	Refer to “Mapping of Frequency” and “Mapping of Daily Frequency”
17	supp_freq_cd	varchar(5)	Supplementary frequency code	Refer to “Mapping of Supplementary Frequency”
18	supp_freq_input_1	integer	Input for supplementary frequency 1	
19	supp_freq_input_2	integer	Input for supplementary frequency 2	
25	multi_dose_ind	smallint	Indicator for PRN flag [55]	“0” = “NO” “1” = “YES”
29	pseudo_record_key	varchar(44)	Masked record key	Refer to “Medications - Multiple Dosage”
30	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	
33	pseudo_episode_key	varchar(24)	Masked episode number	

[55] When ‘multi_dose_ind’ = “1”, please refer to the ‘Medication – Multiple Dosage’ dataset for the ‘PRN’ flag.

Dataset id: **D16**

Dataset name: **Medications - Multiple Dosage [56]**

File name: **phs_multi_dose.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	prn_flag	char(1)	PRN flag indicator	"Y" = "Yes" "N" = "No"
4	pseudo_record_key	varchar(44)	Masked record key	

[56] Medications - Multiple Dosage dataset is only available for EXPERT service.

Dataset id: **D17, D18, D19**

Dataset name: **Laboratory Result - Chemical Pathology [57]**

Laboratory Result - Hematology & Immunology [58]

Laboratory Result - Microbiology & Virology [58]

File name: **lis_cps_result_data.dat.***

lis_hms_result_data.dat.*

lis_mbs_result_data.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	reference_dtm	datetime year to fraction(3)	Reference date for laboratory result (up to month) [58]	YYYY-MM-01
502	diff_in_hour_reference_dtm	integer	Time difference (in hour) between the reference date time and the timestamp of the first appointment / admission[59]	A numeric value
501	sequence_no	integer	A sequence order number by reference datetime among all laboratory result datasets[60]	
2	entity_id	integer	Identifier for laboratory test	Refer to "Mapping of Entity"
4	result_str	varchar(100)	Laboratory test result	Example: "0.1 L", "99 H"
5	result_flagging	varchar(5)	LIS Result Flagging	"L" = "Low" "H" = "High"
8	test_unit	varchar(50)	Test unit	Example: "mmol/L", "x10^9/L"

[58] *"reference_dtm" is the datetime of specimen collection. If specimen collection datetime is not available, it will be replaced by specimen acknowledgement datetime. If specimen acknowledgement date time is not available, it will be replaced by specimen registration datetime.*

[59] "diff_in_hour_reference_dtm" is only available for EXPERT service.

[60] "sequence_no" is the sequence order number assigned to the laboratory result according to its reference datetime (up to time level) among all laboratory result datasets viz. 'Laboratory Result - Chemical Pathology', 'Laboratory Result - Hematology & Immunology', 'Laboratory Result - Microbiology & Virology', 'Anatomical Pathology - Specific SNOMED Result' and 'Laboratory result (text)'.

9	derived_numeric	decimal(11,4)	Numeric result extracted from result string [61]	
11	si_unit	varchar(50)	SI unit	Example: “mmol/L”, “x10^9/L”
12	si_numeric	decimal(11,4)	Numeric result in SI unit	
13	pseudo_record_key1	varchar(44)	Masked LIS request number	
17	pseudo_episode_key	varchar(24)	Masked episode number	
18	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[61] Data is available from 2016 onwards.

Dataset id: D20

Dataset name: Laboratory Result - Bacterial Culture and Sensitivity Test[62]

File name: lis_culture_result_data.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	reference_dtm	datetime year to fraction(3)	Reference date for laboratory result (up to month) [63]	YYYY-MM-01
502	diff_in_hour_reference_dtm	integer	Time difference (in hour) between the reference date time and the timestamp of the first appointment / admission[64]	A numeric value
501	sequence_no	integer	A sequence order number by reference datetime among all laboratory result datasets [65]	
2	entity_id	integer	Identifier for laboratory test	Refer to "Mapping of Entity"
3	organism_entity_id	integer	Identifier for organism	Refer to "Mapping of Entity"
4	antibiotic_entity_id	integer	Identifier for antibiotic	Refer to "Mapping of Entity"
5	specimen_entity_id	integer	Identifier for specimen (MBS and VRS only)	Refer to "Mapping of Entity"
6	sensitivity_cd	varchar(2)	Standardized sensitivity code	Refer to "Mapping of Sensitivity Code"
8	pseudo_record_key1	varchar(44)	Masked LIS request number	
10	organism_seq_id	smallint	Sequence number of organism found	

[63] "reference_dtm" is the datetime of specimen collection. If specimen collection datetime is not available, it will be replaced by specimen acknowledgement datetime. If specimen acknowledgement date time is not available, it will be replaced by specimen registration datetime.

[64] "diff_in_hour_reference_dtm" is only available for EXPERT service.

[65] "sequence_no" is the sequence order number assigned to the laboratory result according to its reference datetime (up to time level) among all laboratory result datasets viz. 'Laboratory Result - Chemical Pathology', 'Laboratory Result - Hematology & Immunology', 'Laboratory Result - Microbiology & Virology', 'Anatomical Pathology - Specific SNOMED Result' and 'Laboratory result (text)'

11	orgranism_sub_seq_id	smallint	Sequence number of sub organism found	
13	pseudo_episode_key	varchar(24)	Masked episode number	
14	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

Dataset id: D21

Dataset name: Anatomical Pathology - Specific SNOMED Result [66]

File name: lis_snomed_result.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	reference_dtm	datetime year to fraction(3)	Reference date for laboratory result (up to month) [67]	YYYY-MM-01
502	diff_in_hour_reference_dtm	integer	Time difference (in hour) between the reference date time and the timestamp of the first appointment / admission[68]	A numeric value
501	sequence_no	integer	A sequence order number by reference datetime among all laboratory result datasets [69]	
2	topology_term_id_lookup_key1	varchar(24)	First lookup key for topology Term ID	Refer to Mapping of "Anatomical Pathology - Mapping of Term Id"
3	topology_term_id_lookup_key2	varchar(24)	Second lookup key for topology Term ID [70]	Refer to Mapping of "Anatomical Pathology - Mapping of Term Id"
4	topology_term_id	integer	Identifier to look up topology result [71]	Refer to "Mapping of IAMS Concept"

[66] Anatomical Pathology - Specific SNOMED Result dataset is only available for EXPERT service.

[67] "reference_dtm" is the datetime of specimen collection. If specimen collection datetime is not available, it will be replaced by specimen acknowledgement datetime. If specimen acknowledgement date time is not available, it will be replaced by specimen registration datetime.

[68] "diff_in_hour_reference_dtm" is only available for EXPERT service.

[69] "sequence_no" is the sequence order number assigned to the laboratory result according to its reference datetime (up to time level) among all laboratory result datasets viz. 'Laboratory Result - Chemical Pathology', 'Laboratory Result - Hematology & Immunology', 'Laboratory Result - Microbiology & Virology', 'Anatomical Pathology - Specific SNOMED Result' and 'Laboratory result (text)'.

[70] "Topology_term_id_lookup_key2" is useful when ""topology_term_id_lookup_key1" is empty.

[71] "Topology_term_id" can be blank before pathology data standardization project in 2017. Please refer to "topology_term_id_lookup_key1" and/or "topology_term_id_lookup_key2" if necessary.

5	morphology_term_id_lookup_key1	varchar(24)	First lookup key for morphology Term ID	Refer to Mapping of "Anatomical Pathology - Mapping of Term Id"
6	morphology_term_id_lookup_key2	varchar(24)	Second lookup key for morphology Term ID [72]	Refer to Mapping of "Anatomical Pathology - Mapping of Term Id"
7	morphology_term_id	integer	Identifier to look up morphology result [73]	Refer to "Mapping of IAMS Concept"
8	pseudo_record_key1	varchar(44)	Masked LIS request number	
10	pseudo_episode_key	varchar(24)	Masked episode number	
11	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[72] "Morphology_term_id_lookup_key2" is useful when ""morphology_term_id_lookup_key1" is empty.

[73] "Morphology_term_id" can be blank before pathology data standardization project in 2017. Please refer to "morphology_term_id_lookup_key1" and/or "morphology_term_id_lookup_key2" if necessary.

Dataset id: **D23**

Dataset name: **Obstetrics** [74]

File name: **obcis_mother_case_data.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
1	deliver_dtm	datetime year to fraction(3)	The date of baby delivery (up to year)	YYYY-01-01
501	diff_in_hour_deliver_dtm	integer	Time difference (in hour) between the deliver date time and the timestamp of the first appointment / admission	A numeric value
3	maturity	smallint	The duration between conception and birth (in completed weeks)	20-44
12	parity_no	smallint	The number of pregnancies completed, regardless of livebirth or stillbirth.	0 -99
16	lookup_key_of_mode_of_delivery	varchar(44)	Masked look up key to the Mode of delivery of the baby	Refer to "Mapping of Mode of Delivery"
22	birth_wgt	integer	Weight of the baby (in grams) at birth	300-7000
23	apgar_1	smallint	Score of the baby assessed in terms of "Appearance, Pulse, Grimace, Activity, and Respiration" at 1 minute after birth	0-10, 99 for unknown
24	apgar_5	smallint	Score of the baby assessed in terms of "Appearance, Pulse, Grimace, Activity, and Respiration" at 5 minute after birth	0-10, 99 for unknown
25	pseudo_episode_key	varchar(24)	Masked episode number	
26	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	
27	pseudo_record_key	varchar(24)	Masked record key	

[74] Obstetrics dataset is only available for EXPERT service. The data is available from 2002 onwards in DCL.

Dataset id: **D24**

Dataset name: **(Reserved)**

File name: **(Reserved)**

#	Data Field	Data Type	Data Description	Permissible Value

Dataset id: **D25**

Dataset name: **Stroke Proforma[75]**

File name: **stroke_proforma.dat.***

#	Data Field	Data Type	Data Description	Permissible Value
6	request_dtm	datetime year to fraction(3)	Request date (up to month)	YYYY-MM-01
7	form_entity_id	integer	Form Entity ID	"102112" = "Stroke Proforma Form" "1004441" = "Stroke Thrombolysis Proforma"
8	case_type	char(1)	Case Type	"I" = "In-patient" "O" = "Out-patient" "A" = "AE" "U" = "Unknown"
10	field_entity_id	integer	Identifier for data field	Refer to "Stroke Proforma – Mapping of Field Entity ID"
15	value_string	varchar(255)	Value string	
16	value_dtm	datetime year to fraction(3)	Coded Result presented in date format (up to month)	
501	diff_in_hour_value_dtm	integer	Time difference (in hour) between the creation date time and the timestamp of the first appointment or admission	A numeric value
19	units	varchar(60)	Value units	
2	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	
3	pseudo_episode_key	varchar(24)	Masked case number	
4	pseudo_record_key	varchar(24)	Masked record key	

[75] Stroke Proforma dataset is only available for EXPERT service.

Dataset id: **T01**

Dataset name: **Radiology Exam Report (TEXT)** [76]

File name: **ris2_exam_text.dat***

#	Data Field	Data Type	Data Description	Permissible Value
1	rpt_text	text	Body text of the examination report	
2	pseudo_record_key	varchar(44)	Masked record key of radiology examination record	

[76] Radiology Exam Report (TEXT) dataset is only available for EXPERT service.

Dataset id: T02

Dataset name: Laboratory Result (TEXT) [77]

File name: lis_free_text_result.dat.*

#	Data Field	Data Type	Data Description	Permissible Value
1	reference_dtm	datetime year to fraction(3)	Reference date for laboratory result (up to month) [78]	YYYY-MM-01
502	diff_in_hour_reference_dtm	integer	Time difference (in hour) between the reference date time and the timestamp of the first appointment / admission	A numeric value
501	sequence_no	integer	A sequence order number by reference datetime among all laboratory result datasets [79]	
2	entity_id	integer	Identifier for laboratory test	Refer to "Mapping of Entity"
3	sub_entity_id	integer	Identifier for sub-result section of laboratory test	Refer to "Mapping of Entity"
4	report_type_id	smallint	Report Type ID	"1" = "Amended Report" "2" = "Supplementary Amended Report" "3" = "Final Report" "4" = "Supplementary Final Report"
6	pseudo_record_key1	varchar(44)	Masked LIS request number	
10	pseudo_episode_key	varchar(24)	Masked episode number	
11	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	
12	result_varchar	text	Body text of the laboratory result (for those up to 255 characters)	

[77] Laboratory Result (TEXT) dataset is only available for EXPERT service.

[78] "reference_dtm" is the datetime of specimen collection. If specimen collection datetime is not available, it will be replaced by specimen acknowledgement datetime. If specimen acknowledgement datetime is not available, it will be replaced by specimen registration datetime.

[79] "sequence_no" is the sequence order number assigned to the laboratory result according to its reference datetime (up to time level) among all laboratory result datasets viz. 'Laboratory Result - Chemical Pathology', 'Laboratory Result - Hematology & Immunology', 'Laboratory Result - Microbiology & Virology', 'Anatomical Pathology - Specific SNOMED Result' and 'Laboratory result (text)'.

13	text_result	text	Body text of the laboratory result (for those more than 255 characters)	

Dataset id: **T03**

Dataset name: **Clinical & Discharge Note (TEXT)** [80]

File name: **clinical_note.dat***

#	Data Field	Data Type	Data Description	Permissible Value
1	create_dtm	datetime year to fraction(3)	Record creation date time (up to month)	YYYY-MM-01
501	diff_in_hour_create_dtm	integer	Time difference (in hour) between the reference date time and the timestamp of the first appointment / admission	A numeric value
2	note_type	char(1)	Document type	"C" = "Consultation Note" "D" = "Discharge Note"
6	consult_text	text	Body text of the clinical documentation	
3	pseudo_record_key	varchar(64)	Masked record key	
4	pseudo_episode_key	varchar(24)	Masked episode number	
5	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	

[80] Clinical & Discharge Note (TEXT) dataset is only available for EXPERT service.

Dataset id: X01

Dataset name: Radiology Image (DICOM) [81][82][83][84]

File name: N/A (Refer to the data structure as below)

#	Data Field	Data Type	Data Description	Data Structure
1	pseudo_patient_key	varchar(24)	Masked unique key assigned to each individual patient	Folder Name
2	accession_no	varchar(44)	Masked unique identifier of the set of image study	Sub Folder Name
3	fullpathname_image	text	Full path name of the binary image file	Full Path Name of Image File

[81] Radiology Image (DICOM) dataset is only available for EXPERT service.

[82] In terms of lossless images, DCL can provide 2 years HA radiology images and 1 year HA radiology CT thin-cut images as of the data extraction date. For lossy images: DCL can provide HA radiology images.

[83] Images with burned in contents in pixel data or sensitive contents may not be provided.

[84] Image data (in DICOM format) extraction time varies according to the required volume, and the data will be provided in phases throughout the project period.

Mapping Tables (M01 – M29)

Table id: **M01**

Table name: **Family Medicine - Mapping of Disease Element**

File name: **map_fm_disease_element.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	element_id	integer	Element ID	
2	element_name	varchar(30)	Element name	Example: “HDL-Cholesterol”, “Red Blood Cell (RBC)”
3	unit	varchar(20)	Unit of the disease element [85]	Example: “mmol/L”, “x10^12/L”

Table id: **M02**

Table name: **Family Medicine – Mapping of ICPC Code**

File name: **map_icpc.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	icpc	char(4)	FM Module: Symptom or Illness (ICPC Code)	Example: “K86”, “T90”
2	icpc_desc	varchar(100)	FM Module: Symptom or Illness (ICPC Description)	Example: “HYPERTENSION UNCOMPLICATED”, “DIABETES NON-INSULIN DEPENDENT”

Table id: **M03**

Table name: **Immunization – Mapping of Status**

File name: **map_immu_status.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	injection_code	Integer	Injection Code	Refer to "Mapping of Vaccine"

[85] The unit of the disease element is not a standardized unit which could be an abbreviated description.

2	status_code	Integer	Status Code	
3	description	varchar(20)	Sequence of Dose	Example: “1st Dose”, “2nd Dose”

Table id: **M04**

Table name: **Immunization – Mapping of Vaccine**

File name: **map_immu_vaccine.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	injection_code	integer	Injection Code	
2	description	varchar(35)	Description of the vaccine	Example: “Seasonal Influenza 2019/2020”, “Hepatitis B”

Table id: **M06**

Table name: **Procedure Progress - Mapping of Term Id**

File name: **map_icd9_proc.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	term_id	integer	Procedure Term ID	
2	full_desc	varchar(255)	HKCTT full description of Procedure	Example: “Haemodialysis for chronic care”, “Cardiotocography”

Table id: **M07**

Table name: **Accident and Emergency Department Attendance – Mapping of Triage Category**

File name: **map_ae_triage_cat.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	triage_cat_cd	char(1)	Triage Category	

2	triage_cat_desc	varchar(30)	Triage Category Description	"1" = "Critical" "2" = "Emergent" "3" = "Urgent" "4" = "Semi-urgent" "5" = "Non-urgent"

Table id: M08

Table name: Specialty Classification

File name: dim_unit_m.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	unit_id	smallint	Unit ID	
3	unit_full_name	varchar(50)	Unit full name	Example: "Medicine", "Rehabilitation"

Table id: M09

Table name: Radiology - Mapping of Examination Details

File name: map_ris_exam.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	exam_cd_lookup_key	varchar(44)	Masked reference key to link up with examination details	
2	ris_exam_desc	varchar(40)	Description of the examination	Example: "Abdomen", "Elbow"
3	ris_exam_cat1	varchar(10)	Examination Category	"S1" = "General Radiography" "S2" = "Fluoro. Exam. +- Contrast" "S3" = "Ultrasonography" "S4" = "Computed Tomography" "S5" = "Breast Imaging" "S6" = "Angiographic Exam. and I.R." "S7" = "Non-Vascular Invasive & IR Pro" "S8" = "Magnetic Resonance Imaging" "S9" = "Nuclear Medicine" Empty = "Unknown"

Table id: M10

Dataset name: Medications - Mapping of Drug Item Code

File name: phs_drugs.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	Itemcode	varchar(6)	Drug item code defined by HA Pharmacy Office	Example: “PARA01”, “PIPE08”
2	drugname	varchar(59)	Drug name	Example: “PARACETAMOL”, “PIPERACILLIN + TAZOBACTAM”
3	tradename_n	char(20)	Trade name	Example: “PANADOL”, “TAZOCIN”
4	formcode_n	char(3)	Form code	Example: “TAB”, “INJ”
5	strength_n	varchar(59)	Strength of the item	Example: “500MG”, “4.5G”

Table id: M11

Table name: Medications - Mapping of Frequency

File name: phs_freq.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	freq_code	varchar(7)	Frequency Code	Example: “8AM”, “6H”
2	eng_txt	varchar(42)	Frequency Description	Example: “AT 8 A.M.”, “EVERY SIX HOURS”

Table id: M12

Table name: Medications - Mapping of Daily Frequency

File name: phs_daily_freq.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	freq_cd	varchar(5)	Frequency Code	Example: “77”, “43”

2	freq_desc	varchar(80)	Frequency Description	Example: “ONCE PER DAY”, “EVERY__HOUR(S)”

Table id: **M13**

Table name: **Medications - Mapping of Supplementary Frequency**

File name: **phs_supp_freq.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	freq_cd	varchar(5)	Supplementary frequency code	Example: “10”, “23”
2	freq_desc	varchar(132)	Supplementary frequency description	Example: “EVERY TUESDAY”, “__DOSE(S) PER DAY”

Table id: **M14**

Table name: **Medications - Mapping of Route**

File name: **phs_route.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	route	varchar(7)	Route Code	Example: “INJ”, “PO”
2	route_desc	varchar(12)	Route Description	Example: “INJECTION”, “ORAL”

Table id: **M15**

Table name: **Medications - Mapping of British National Formulary (BNF) Code**

File name: **phs_bnfde.dat**

#	Data Field	Data Type	Data Description	Permissible Value

1	bnf_no	varchar(11)	British Nation Formulary Code	Example: “3.9.1”, “9.6.3”
2	bnf_desc	varchar(80)	Description	Example: “COUGH SUPPRESSANTS”, “VITAMIN C”

Table id: M16

Table name: Mapping of Entity

File name: entity_id.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	entity_id	integer	Identifier for laboratory test	
2	entity_desc	varchar(255)	Description of the identifier for laboratory test	Example: “Haemoglobin, Blood”, “WBC”

Table id: M17

Table name: Bacterial Culture and Sensitivity Test – Mapping of Sensitivity Code

File name: code_sensitivity.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	sensitivity_cd	varchar(10)	Sensitivity code	Example: “P”, “N”
2	sensitivity	varchar(80)	Sensitivity description	Example: “Positive”, “Negative”

Table id: M18

Table name: Mapping of IAMS Entity Concept

File name: iams_entity_concept.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	entity_id	integer	Identifier for laboratory test	

2	term_id	integer	Identifier for laboratory test in HKCTT	Refer to "Mapping of IAMS Concept"

Table id: M19

Dataset name: Mapping of IAMS Concept

File name: iams_concept.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	term_id	integer	Identifier for laboratory test in HKCTT	
2	full_desc	varchar(255)	Description of Term ID	Example: "Hemoglobin [Mass/volume] in Blood", "Diabetes mellitus"
3	nature	varchar(20)	Nature of IAMS concept	Example: "Lab. Test", "Dx"

Table id: M20

Table name: Anatomical Pathology - Mapping of Term Id

File name: ap_operation_list_master.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	snomed_term_id_lookup_key	varchar(24)	Lookup key for topology or morphology Term ID	
2	term_id	integer	Term ID for topology or morphology	Refer to "Mapping of IAMS Concept"

Table id: M21

Table name: Mapping of District of Residence

File name: map_pmi_district.dat

#	Data Field	Data Type	Data Description	Permissible Value

1	district_board	varchar(15)	18 Board District	Example: “CENTRAL & WEST.”, “KOWLOON CITY”
2	district_area	varchar(50)	Area of Board District	Example: “HONG KONG”, “KOWLOON”

Table id: M22

Table name: Mapping of Service Type

File name: map_service_type.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	service_type_cd	varchar(4)	Service Type Code	Example: “S”, “CGAT”
2	eis_desc	varchar(150)	Description	Example: “SOP - single specialty clinic”, “Community Geriatric Assessment Team”

Table id: M23

Table name: Diagnosis Progress - Mapping of ICD-10

File name: map_icd10_diag.dat

#	Data Field	Data Type	Data Description	Permissible Value
1	term_id	integer	Diagnosis Term ID	
2	icd10_cd	char(7)	ICD10 Code	Example: “E14”, “I10”
3	full_desc	varchar(255)	HKCTT full description of Diagnosis	Example: “Diabetes mellitus”, “Hypertension”

Table id: **M28**

Table name: **Mapping of Mode of Delivery**

File name: **map_obcis_icd9.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	lookup_key_of_mode_of_delivery	varchar(44)	Masked look up key to the Mode of Delivery	
2	short_desc	varchar(50)	Mode of delivery	Example: “NSD”, “Vacuum extraction”

Table id: **M29**

Table name: **Stroke Proforma – Mapping of Field Entity ID**

File name: **iams_form_page_entity.dat**

#	Data Field	Data Type	Data Description	Permissible Value
1	form_entity_id	integer	Identifier for form	“102112” = “Stroke Proforma” “1004441” = “Stroke Thrombolysis Proforma”
2	entity_id	integer	Identifier for data field	
3	entity_desc	varchar(255)	Description of the identified for data field	Example: “Premorbid Medication”, “Type of thrombolysis / thrombectomy”

Data Product (S01 – S14, C01 – C11)

Product id: S01

Product name: Chronic Heart Failure (CHF)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Chronic Heart Failure patients were included by coded Chronic Heart Failure principal/secondary diagnosis (i.e. ICD9-CM and ICPC2) in A&E/IP/DP/SOPC or GOPC/FMSC.

Coded CHF Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
A&E / IP / DP / SOPC	422.x	Acute Myocarditis
	428.x	Heart Failure
	425.x	Cardiomyopathy
	785.51	Cardiogenic Shock
	398.91	Rheumatic Heart Failure (Congestive)
	402.01	Malignant Hypertensive Heart Disease with Congestive Heart failure
	402.11	Benign Hypertensive Heart Disease with Congestive Heart failure
	402.91	Unspecified Hypertensive Heart Disease with Congestive heart Failure
	404.01	Hypertensive Heart and Renal Disease, Malignant, with Congestive heart Failure
	404.03	Hypertensive Heart and Renal Disease, Malignant, with Congestive heart Failure and Renal Failure
	404.11	Hypertensive Heart and Renal Disease, Benign, with Congestive Heart failure
	404.13	Hypertensive Heart and Renal Disease, Benign, with Congestive Heart failure and Renal Failure
	404.90	Hypertensive Heart and Renal Disease, Unspecified, without Mention of Congestive Heart Failure or Renal Failure
	404.91	Hypertensive Heart and Renal Disease, Unspecified, with Congestive heart Failure
	404.93	Hypertensive Heart and Renal Disease, Unspecified, with Congestive heart Failure and Renal Failure
	414.8x	Other Specified Forms of Chronic Ischemic Heart Disease / ischemic cardiomyopathy
	277.39	Hereditary cardiac amyloidosis
	429.4x	Functional disturbances following cardiac surgery
	429.0x	Myocarditis, unspecified
	429.83	Takotsubo syndrome/ Stress induced cardiomyopathy

	425.7x	Nutritional and metabolic cardiomyopathy

Coded CHF Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
GOPC / FMSC	K77	Heart Failure

Product id: S02

Product name: Chronic Kidney Disease (CKD) Stage 3A, 3B, 4 & 5

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

CKD patients were included by coded an index creatinine pre-defined reading (Day 0) with eGFR and ≥1 confirmatory creatinine pre-defined reading with eGFR between Days 90 – 180.

General Principle

1) Staging Definition:
   - Based on two confirmatory eGFR reading:
     - Index reading (Day 0)
     - Confirmatory reading (Day 90 - 180)

2) eGFR Calculation for data before 2018 (MDRD Equation)
   - $175 \times (\text{Creatinine} / 88.4)^{-1.154} \times (\text{Age})^{-0.203} \times (0.742 \text{ if female}) \times (1.210 \text{ if black})$
   - Creatinine in µmol/L (88.4 µmol/L = 1 mg/dL)
   - Assuming all HA patients are non-black

3) eGFR Calculation for data from 2018 onwards (CKD-EPI Equation)
   - $141 \times \min(\text{Scr}/\kappa,1)^{\alpha} \times \max(\text{Scr}/\kappa,1)^{-1.209} \times 0.993^{\text{age}} \times (1.018 \text{ if female}) \times (1.159 \text{ if black})$
   - Scr is serum creatinine (mg/dL), κ is 0.7 for females and 0.9 for males, α is -0.329 for females
   - Assuming all HA patients are non-black

CKD Patient Staging Definition

CKD Patient Staging	Index Reading	Confirmatory Reading
Stage 5 (eGFR <15)	eGFR <15 (Day 0)	≥1 reading eGFR <15 (Day 90–180)
Stage 4 (eGFR 15 – 29)	eGFR ≥15 and <30 (Day 0)	≥1 reading eGFR <30 (Day 90–180)
Stage 3B (eGFR 30 – 44)	eGFR ≥30 and <45 (Day 0)	≥1 reading eGFR <45 (Day 90–180)
Stage 3A (eGFR 45 – 59)	eGFR ≥45 and <60 (Day 0)	≥1 reading eGFR <60 (Day 90–180)

Product id: S03

Product name: Chronic Obstructive Pulmonary Disease (COPD)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

COPD patients (aged ≥40) were included by coded COPD diagnosis (principal/secondary) in IP/DP/SOPC or GOPC/FMSC.

Coded COPD Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
IP / DP / SOPC	491.x Excludes 491.8	Chronic bronchitis
	492.x Excludes 492.0, 492.8	Emphysema
	496	Chronic obstructive lung disease, NOS

Coded COPD Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
GOPC / FMSC	R79	Chronic bronchitis
	R95	COPD

Product id: S04

Product name: Coronary Heart Disease (CHD)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Coronary Heart Disease were included by having hospitalization with coded CHD principal/secondary diagnosis or having antiplatelets drugs from OPD with nitrates prescribed in the past 5 years.

Coded CHD Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
IP / DP	410.x	Acute myocardial infarction
	411.x	Other acute/subacute ischemic heart disease
	412.x	Old myocardial infarction
	413.x	Angina pectoris
	414.x	Chronic ischemic heart disease

Antiplatelets Drugs (Drug Name)

Setting	Drug Name
OPD MED / PAE specialty (includes outpatient clinics under SOPC, GOPC, FMSC, CGAT, CVMO, GDH, and MOE records)	Aspirin/Plavix
	Nitrate

Product id: S05

Product name: Dementia

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Dementia patients were included by coded Dementia diagnosis code in (IP-PSY/SOP-PSY/PDH) or (IP/SOP) or (GOP) or dementia drugs.

Coded Dementia Diagnosis (ICD10)

Setting	ICD10 Code	Description
IP-PSY / SOP-PSY / PDH	F00.xx	Dementia in Alzheimer disease
	F01.xx	Vascular dementia
	F02.xx	Dementia in other diseases classified elsewhere
	F03.xx	Unspecified dementia
	G30.xx	Alzheimer disease
	A81.0	Creutzfeldt-Jakob disease
	F05.1	Delirium superimposed on dementia
	F06.8	Other specified mental disorders due to brain damage and dysfunction and to physical disease

Coded Dementia Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
IP / SOP (all specialties, except PSY)	046.1	Jakob-Creutzfeldt disease
	049.9	Dementia related to viral encephalitis
	086.1	Dementia related to Chagas' disease
	086.5	Dementia related to African trypanosomiasis
	090.40	Dementia paralytica juvenilis
	094.1	Dementia in neurosyphilis
	239.9	Dementia related to neoplasia
	244.9	Dementia related to hypothyroidism
	265.2	Dementia related to niacin deficiency
	266.2	Dementia related to vitamin B12 deficiency
	275.1	Dementia related to hepatoenticular degeneration
	275.4	Dementia related to hypercalcemia

	290.0	Senile dementia, uncomplicated
	290.1	Presenile dementia
	290.10	Presenile dementia, uncomplicated
	290.11	Presenile dementia with delirium
	290.12	Presenile dementia with delusional features
	290.13	Presenile dementia with depressive feature
	290.2	Senile dementia with delusional or depressive features
	290.20	Senile dementia with delusional feature
	290.21	Senile dementia with depressive feature
	290.3	Senile dementia with delirium
	290.4	Arteriosclerotic dementia
	290.40	Vascular dementia, uncomplicated
	290.41	Vascular dementia with delirium
	290.42	Vascular dementia with delusion
	290.43	Vascular dementia with depressed mood
	290.8	Dementia in Alzheimer's disease atypical or mixed type
	290.9	Dementia in Alzheimer's disease
	294.1	Dementia in other condition
	294.8	Dementia, organic brain syndrome
	298.9	Dementia
	330.1	Dementia related to cerebral lipidosis
	331.0	Alzheimer's disease
	331.3	Dementia related to normal pressure hydrocephalus
	340	Dementia related to multiple sclerosis
	345.90	Dementia related to epilepsy
	348.1	Dementia related to cerebral anoxia
	348.8	Other conditions of brain
	446.0	Dementia related to polyarteritis nodosa
	586	Uraemic dementia
	648.40	Dementia for maternal care
	710.0	Dementia related to systemic lupus erythematosus
	977.9	Dementia related to drug intoxication
	989.9	Dementia related to nonmedicinal substance intoxication

Coded Dementia Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
GOP	P70	Dementia

Dementia Drugs (Drug Name)

Setting	Drug Name
IP / SOP / PDH	Donepezil
	Rivastigmine
	Galantamine
	Memantine
M&G patients (i.e. IP-MED / SOP-MED patients prescribed ≥12 weeks +/- prn manner)	Quetiapine
	Risperidone
	Haloperidol
	Trazodone

Product id: S06

Product name: Diabetes Mellitus (DM)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Diabetes Mellitus patients were included by having DM drugs from SOPC/GOPC/FMSC or with coded DM diagnosis in GOPC/FMSC.

DM Drugs (BNF Category)

Setting	BNF Category	Description
GOPC / SOPC / FMSC	6.1.1.1	Short-acting insulins
	6.1.1.2	Intermediate and long-acting insulins
	6.1.2.1	Sulfonylureas
	6.1.2.2	Biguanides
	6.1.2.3	Other antidiabetic drugs

Coded DM Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
FMSC / SOPC	T89	Diabetes insulin dependent
	T90	Diabetes non-insulin dependent

Product id: S07

Product name: Glaucoma

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Glaucoma patients were included by having Glaucoma drugs in IPDP/SOPC/FMSC/GOPC or coded Glaucoma diagnosis in IPDP/SOPC or Glaucoma-related procedure.

Glaucoma Drugs (BNF Category)

Setting	BNF Category	Description
IPDP / GOPC / SOPC / FMSC	11.6	Treatment of glaucoma Excludes the following drug items: Acetazolamide, Physostigmine eyedrops, Adrenaline eyedrops, Dichlorphenamide

Coded Glaucoma Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
IPDP / SOPC	365.x	Glaucoma

Glaucoma Related Procedure (ICD9)

ICD9 Code	Description
12.51	Goniopuncture without goniotomy
12.52	Goniotomy without goniopuncture
12.53	Goniotomy with goniopuncture
12.54	Trabeculotomy ab externo
12.55	Cyclodialysis
12.56	Trabeculoplasty by laser
12.59	Other facilitation of intraocular circulation
12.61	Trephination of sclera with iridectomy
12.62	Thermocauterization of sclera with iridectomy

12.63	Iridencleisis and iridotasis
12.64	Trabeculotomy ab externo
12.65	Other scleral fistulization with iridectomy
12.66	Postoperative revision of scleral fistulization procedure
12.67	Management of postoperative hypotony/fistula using tamponade device
12.69	Other scleral fistulizing procedure
12.71	Cyclodiathermy
12.72	Cyclocryotherapy
12.73	Cyclophotocoagulation
12.74	Diminution of ciliary body, not otherwise specified
12.79	Other glaucoma procedures
12.89	Other operations on sclera
95.26	Tonography, provocarive tests, and other glaucoma testing
12.10	Iridotomy by laser
12.36	Iridoplasty & coreoplasty by laser
12.39	Other iridoplasty

Product id: S08

Product name: Hepatitis B Carriers

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Chronic Hepatitis B Carriers patients were included by having relevant positive lab results with/without HBV drugs or chronic HBV diagnosis code in IP/DP/SOPC or GOPC/FMSC.

Hep-B Relevant Lab Test Result (Test Description)

Lab Test	Test Result
HBsAg	Any positive value

Coded Hep-B Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
Any HA setting	070.22	Chronic viral hepatitis B with hepatic coma
	070.23	Chronic viral hepatitis B with hepatic coma and hepatitis delta
	070.32	Chronic viral hepatitis B infection
	070.33	Chronic viral hepatitis B infection with hepatitis delta
	V02.61	Viral hepatitis B carrier

Hep-B Drugs (Drug Name)

Setting	Drug Name
Any HA setting	Lamivudine*
	Telbivudine (also licensed for HIV use)
	Entecavir
	Adefovir (changed to non-formulary on 2019.04.13)
	Tenofovir Alafenamide*
	Tenofovir Disoproxil Fumurate*
	Pegylated interferon alfa-2a

**Excludes HIV patients on Tenofovir/Lamivudine+Emtricitabine combinations.*

Product id: S09

Product name: Hip Fracture (as approximate for Osteoporosis)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Hip Fracture patients were included by coded hip fracture principal diagnosis during hospitalization or hip fracture-related procedure code.

Coded Hip Fracture Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
IP / DP	820.x	Fracture of neck of femur

Hip Fracture Related Procedure (ICD9)

ICD9 Code	Description
77.85	Other partial ostectomy of femur
79.05	Closed reduction of fracture of femur without internal fixation
79.15	Closed reduction of fracture of femur with internal fixation
79.25	Open reduction of fracture of femur without internal fixation
79.35	Open reduction of fracture of femur with internal fixation
81.52	Partial hip replacement

Product id: S10

Product name: Hyperlipidemia (HLD)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Hyperlipidemia (HLD) patients were included by coded HLD diagnosis in A&E/IP/DP/SOPC or GOPC/FMSC.

Coded HLD Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
A&E / IP / DP / SOPC	272.0	Pure hypercholesterolemia
	272.1	Pure hyperglyceridemia
	272.2	Mixed hyperlipidemia
	272.3	Hyperchylomicronemia
	272.4	Other and unspecified hyperlipidemia

Coded HLD Diagnosis (ICPC2)

Setting	ICD9-CM Code	Description
GOPC / FMSC	T93	Lipid disorder

Product id: S11

Product name: Hypertension (HT)

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Hypertension patients were included by having HT drugs from SOPC/GOPC/FMSC or with coded HT diagnosis in GOPC/FMSC.

HT Drugs (BNF Category)

Setting	BNF Category	Description
GOPC	2.2.1	Thiazides and related diuretics
	2.2.4	Potassium sparing diuretics and compounds
	2.4	Beta-adrenoceptor blocking drugs Excludes the following drug items: Carvedilol Tablet, Nadolol Tablet, Pindolol Tablet, Sotalol HCL Tablet, Sotalol HCL Injection, Sotalol HCL Syrup, Propranolol HCL Tablet, Propranolol HCL Injection, Propranolol HCL Syrup, Propranolol HCL Suspension, Propranolol HCL Solution, Propranolol HCL S.R.
	2.5.1	Vasodilator antihypertensive drugs
	2.5.2	Centrally-acting antihypertensive drugs
	2.5.3	Adrenergic neurone blocking drugs
	2.5.4	Alpha-adrenoceptor blocking drugs Excludes the following drug items: Prazosin (HCL) Tablet, Terazosin HCL Tablet
	2.5.5.1	Angiotensin-converting enzyme inhibitors
	2.5.5.2	Angiotensin-II receptor antagonists
	2.5.5.3	Renin inhibitors

	2.6.2	Calcium-channel blockers Excludes the following drug items Verapamil HCL Tablet, Verapamil HCL Injection, Verapamil HCL SR
FMSC	2.2.1	Thiazides and related diuretics
	2.2.4	Potassium sparing diuretics and compounds
	2.4	Beta-adrenoceptor blocking drugs Excludes the following drug items: Carvedilol Tablet, Nadolol Tablet, Pindolol Tablet, Sotalol HCL Tablet, Sotalol HCL Injection, Sotalol HCL Syrup
	2.5.1	Vasodilator antihypertensive drugs
	2.5.2	Centrally-acting antihypertensive drugs
	2.5.3	Adrenergic neurone blocking drugs
	2.5.4	Alpha-adrenoceptor blocking drugs
	2.5.5.1	Angiotensin-converting enzyme inhibitors
	2.5.5.2	Angiotensin-II receptor antagonists
	2.6.2	Calcium-channel blockers
	2.2.3	Potassium-sparing diuretics and aldosterone antagonists Includes only the following drug items: Spironolactone Tablet, Spironolactone Syrup
SOPC	2.2.1	Thiazides and related diuretics
	2.2.4	Potassium sparing diuretics and compounds
	2.4	Beta-adrenoceptor blocking drugs Excludes the following drug items: Carvedilol Tablet, Nadolol Tablet, Pindolol Tablet, Sotalol HCL Tablet, Sotalol HCL Injection, Sotalol HCL Syrup
	2.5.1	Vasodilator antihypertensive drugs
	2.5.2	Centrally-acting antihypertensive drugs
	2.5.3	Adrenergic neurone blocking drugs
	2.5.4	Alpha-adrenoceptor blocking drugs
	2.5.5.1	Angiotensin-converting enzyme inhibitors
	2.5.5.2	Angiotensin-II receptor antagonists
	2.5.5.3	Renin inhibitors

	2.6.2	Calcium-channel blockers Excludes the following drug items Verapamil HCL Tablet, Verapamil HCL Injection, Verapamil HCL SR
	N/A	Further excludes the following drug items: Esmolol HCL Injection, Esmolol HCL in NaCl (No preservative) Infusion, Labetalol HCL Injection, Metoprolol Tartrate Injection, Propranolol HCL Injection, Sotalol HCL Injection, Bosentan Tablet, Dihydroergotamine Mesylate Injection, Hydralazine HCL Injection, Iloprost Trometamol Injection, Iloprost Trometamol Infusion, Nitroprusside Dihydrate Sodium Injection, Sildenafil (Citrate) Tablet, Sildenafil (Citrate) Suspension, Tolazoline HCL Injection, Clonidine HCL Injection, Guanfacine Monosulphate Injection, Phenoxybenzamine HCL Injection, Phentolamine Methanesukohonate Injection, Urapidil HCL Injection, Tinzaparin Injection, Diltiazem HCL Injection, Nimodipine 50ml Injection, Verapamil HCL Injection

Coded HT Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
FMSC / SOPC	K86	Hypertension uncomplicated
	K87	Hypertension complicated

Product id: S12

Product name: Parkinsonism

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Parkinsonism patients were included by coded Parkinsonism principal/secondary diagnosis in A&E/IP/DP/SOPC or having Parkinsonism drugs in A&E/IP/DP/SOPC/FMSC/GOPC.

Coded Parkinsonism Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
A&E / IP / DP / SOPC	332.x	Parkinson's disease
	333.0	Other degenerative diseases of basal ganglia

Coded Parkinsonism Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
GOPC / FMSC	N87	Parkinsonism

Parkinsonism Drugs (BNF Category)

Setting	BNF Category	Description
A&E / IP / DP / SOPC / FMSC / GOPC	4.9.1	Dopaminergic drugs
	4.9.2	Dopamine receptor agonists
	N/A	Further excludes the following drug items: Artane, Cogentin, Bromocriptine, Amantadine

Product id: S13

Product name: Stroke

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Stroke patients were included by coded stroke principal diagnosis and status marked as acute during hospitalization (IP/DP).

Coded Stroke Diagnosis (ICD9-CM)

Setting	Ranking	ICD9-CM Code	Description
IP / DP	Principal	430	Subarachnoid haemorrhage, non-traumatic
		431	Intracerebral haemorrhage, non-traumatic
		433.91	Occlusion and stenosis of precerebral artery with cerebral infarction
		434.11	Cerebral embolism with infarction
		434.91	Cerebral artery occlusion with cerebral infarction
		435.0	Basilar artery syndrome
		435.9	Transient cerebral ischaemia
		436	Acute cerebrovascular disease

Product id: S14

Product name: Depression

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

Depression patients were included by coded Depression diagnosis or diagnosis with depression related drugs prescription.

Coded Depression Diagnosis (ICD9-CM)

Setting	ICD9-CM Code	Description
IP-MED / SOPC-MED OR IP-PAE/SOPC-PAE (no medication duration requirement)	292.84	Drug-induced organic affective syndrome
	296.2	Major depressive disorder, single episode
	296.20	Major depressive disorder, single episode, unspecified degree
	296.21	Major depressive disorder, single episode, mild degree
	296.22	Major depressive disorder, single episode, moderate degree
	296.23	Major depressive disorder, single episode, severe degree, without mention of psychotic behavior
	296.24	Major depressive disorder, single episode, severe degree, specified as with psychotic behavior
	296.25	Major depressive disorder, single episode, in partial or unspecified remission
	296.26	Major depressive disorder, single episode in fill remission
	296.3	Major depressive disorder, recurrent episode
	296.30	Major depressive disorder, recurrent episode, unspecified degree
	296.31	Major depressive disorder, recurrent episode, mild degree
	296.32	Major depressive disorder, recurrent episode, moderate degree
	296.33	Major depressive disorder, recurrent episode, severe degree, without mention of psychotic behavior
	296.34	Major depressive disorder, recurrent episode, severe degree, specified as with psychotic behavior
	296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission
	296.36	Major depressive disorder, recurrent episode, in full remission
	296.82	Atypical depressive disorder
	298.0	Depressive type psychosis
	300.4	Neurotic depression
	301.12	Chronic depressive personality disorder

	311	Depressive disorder, not elsewhere classified

Coded Depression Diagnosis (ICPC2)

Setting	ICPC2 Code	Description
GOPC / FMSC	P76	Depressive disorder

Coded Depression Diagnosis (ICD10)

Setting	ICD10 Code	Description
IP-PSY / SOPC-PSY / PDH-PSY	F32	Depressive episode
	F33	Recurrent depressive disorder
	F34.1	Dysthymia with antidepressant prescription (please see table below)

Antidepression Prescription (Drug Name)

Drug Name
Sertraline (HCL) tablet
Trimipramine Maleate tablet
Amitriptyline
Amitriptyline HCL injection
Fluoxetine (HCL) liquid
Fluoxetine (HCL) Dispersible Disp tab
Maprotiline HCL tablet
Phenazopyridine HCL tablet
Duloxetine (HCL) delayed release
Faxine (HCL) tablet
Escitalopram (oxalate) tablet
Citalopram (HBR) tablet
Mirtazapine Orodispersible Orodistab
Trazodone HCL tablet
Venlafaxine (HCL) tablet
Faxine (HCL) tablet
Venlafaxine (HCL) tablet
Mirtazapine tablet
Dothiepin (Dosulepin) HCL tablet
Mirtazapine Orodispersible Orodistab
Trimipramine Maleate tablet
Imipramine HCL tablet
Lithium Carbonate tablet
Lithium Sulphate SR
Mianserin HCL tablet
Mirtazapine Orodispersible Orodistab

Moclobemide tablet
Paroxetine (HCL) CR
Bupropion HCL (Wellbutrin SR) S.R.
Mirtazapine Orodispersible Orodistab
Bupropion HCL (Zyban) S.R.
Desvenlafaxine (Succinate) ER
Vortioxetine (HBR) tablet
Sertraline (HCL) tablet
Trazodone HCL tablet
Trimipramine Maleate tablet
Amitriptyline HCL tablet
Bupropion HCL (Wellbutrin SR) S.R.
Bupropion (Zyban)
Bupropion HCL (Wellbutrin XL) ER
Bupropion (Wellbutrin XL)
Citalopram (HBR) tablet
Desvenlafaxine (Succinate) ER
Dothiepin (Dosulepin) HCL capsule
Dothiepin (Dosulepin) HCL tablet
Doxepin (HCL) capsule
Fluoxetine (HCL) capsule
Clomipramine HCL tablet
Fluoxetine (HCL) capsule
Clomipramine HCL tablet
Duloxetine (HCL) delayed release
Fluvoxamine Maleate tablet
Nortriptyline (HCL) tablet
Paroxetine (HCL) tablet
Doxepin (HCL) capsule
Escitalopram (Oxalate) tablet
Fluvoxamine Maleate tablet
Lithium Carbonate C.R.
Nortriptyline (HCL) tablet
Venlafaxine (HCL) extended release
Agomelatine tablet
Amineptine HCL tablet
Deanxit (or equiv) tablet
Flupenthixol (Dihydrochloride) tablet
Milnacipran HCL capsule
Motival (or equiv) tablet
Nefazodone HCL tablet
Oxitriptan (l-5-hydroxytryptophan) capsule
Protriptyline HCL tablet
Zodone HCL tablet

Acipran HCL capsule
Milnacipran HCL capsule
Agomelatine tablet
Vortioxetine (HBR) tablet

Product id: C01 – C11

Product name: Cancer Data Products

Product id	Product Name
C01	Colorectal Cancer
C02	Breast (Female) Cancer
C03	Lung Cancer
C04	Prostate Cancer
C05	Liver Cancer
C06	Nasopharynx Cancer
C07	Stomach Cancer
C08	Corpus Cancer
C09	Ovary Cancer
C10	Cervix Cancer
C11	Non-Hodgkin Lymphoma

Dataset	Included in Data Product
Structured	D01 to D23
Textual	N/A
Image	N/A

Product definition:

For all cancer data products, the prevalence was provided by Hong Kong Cancer Registry.

Feedback on EHPDCL Data Provision

https://forms.gle/hgDm4J6acTD9BEog7

END