North West London Collaboration of Clinical Commissioning Groups

NHS

Whole Systems Integrated Care (WSIC):

De-Identified Data Set

User Guide - V0.9

nwlccgs.wsic.dashboards@nhs.net

Contents

Version History

Date	Version	Author	Notes
01/04/2017	0.1	Danielle Zakrison & Sravani Bollu	Draft
20/04/2017	0.2	Sravani Bollu	Draft
02/05/2017	0.3	Adrian Shentall	Draft
20/05/2017	0.4	Danielle Zakrison	Draft – Access Process
01/09/2017	0.5	Danielle Zakrison	Draft – Additional Table
20/10/2017	0.6	Danielle Zakrison	Draft – Additional information to tables
10/11/2017	0.7	Danielle Zakrison	Finalising Draft
20/12/2017	0.8	Danielle Zakrison	Amendment and additions to tables sections
06/02/2018	0.9	Titilayo Shoroye	Amended and Published

Access |How to get access and who is it for?

What is the purpose of the De-Identified Data Set?

1. We aim for this to be seen as a self-serve portal for NWL data, for users to query anonymised data for their own projects.
2. A facility to allow users to publish assured analysis with support from the WSIC team.
3. Identify cohorts of patients with Long term Conditions
4. Identify cohorts of patients with care plans
5. Allow pathway analysis across the local health sector using multiple data sources

How to Get Access:

The De-Identified Data Set is hosted on a dedicated server hosted by the CSU. Follow the below steps for getting the access.

Step 1: How to get access to the de-identified dataset

To gain access to the de-identified data set, a data access request form will need to be completed and send to nwlccgs.WSIC.deidentified@nhs.net

This is submitted to the Security & Access Sub Group for approval. This group meets on a monthly basis, half way through the month.

Step 2: Points to Consider

Ensure organisation requesting is a signatory of the NWL Digital ISA

Purpose/Context

- ✓ Why is the data required?
- ✓ What will the data be used for (needs to be within the permitted purpose)?
- ✓ What are the benefits of acquiring access to the data set?

Which data set (by CCG) is required to be accessed and for how long?

Access will be given to SQL to enable modelling and analysis as the data will be provided as SQL tables

Step 3: NHS Local Account and Juniper access:

- NWL arranges accounts for the Users, please fill in the below form and return to nwlccgs.WSIC.deidentified@nhs.net

Step 4: Access to the Server and Tables:

- NWL facilitates the Juniper application of user permissions. Please fill in the below form and return to nwlccgs.WSIC.deidentified@nhs.net

Notes: There are pre-requisites for access and continued access requirements:

- The pre-requisites are Reading the data dictionary and attending training.
- For continued access, users must attend the bi-monthly de-identified user group and give monthly projects updates, per project.
- Access is only granted for 6 months. For an additional 6 months, user should re-submit their data access request form with the reason for project not completed or a new project.

How to log in:

- Using Internet Explorer (version 8 or higher) and navigate to https://remote1.sussex.nhs.uk/dana-na/auth/url_26/welcome.cgi
- When prompted log in with your NHS Local account credentials. The secondary password is the PIN and DIGIPASS onetime use code.

Username:	NHSLocal\username
Primary Password:	NHSLocal account password
Secondary Password:	PIN+DIGIPASS onetime use code

Instructions on how to download the DIGIPASS APP are available in the below word document.

- You should then receive a page where Secure Access Manager is listed with a start button. Click start and it should load some components

When complete use Remote Desktop Connection to connect to server (10.51.117.112) and use your NHSLocal account details to login to the server.

The WSIC de-identified data set currently includes seven views and one table:

1. Long term conditions
2. Patient Prescribing
3. Patient History
4. Patient procedures
5. GP activity
6. Patient diagnosis
7. Watch Lists
8. Electronic Frailty Index (eFI)

Anonymising the data

All Patient Identifiable data in the activity backing dataset has been either omitted or pseudonymised to ensure patients cannot be identified as follows:

- All Patient identifiers are de-identified
- Local identifiers, e.g. hospital patient number = not present
- NHS number = Patient database Key
- Fore Name = Blanked out
- Surname= Patient database Key
- Full Postcode = Postcode Sector, first 3 letters and numbers
- DOB = Blanked out (but age will be available in the consolidated table)

Please see table (1.1) for the field specific anonymisation.

NHS number and surname is anonymised by generating a 10 digit key each time a unique NHS number is entered into the database. This is called the patient database key. The same patient database key is used for each NHS number in all datasets in the de-identified data. The mapping of the patient database key and NHS number are hosted by a WSIC database with tightly controlled access permissions. All other patient identifiable details are blanked (see table 1.1).

The steps taken and restrictions in place (from the NWL Digital ISA) represent anonymisation within a trusted environment, in accordance with the HSCIC Guide to Confidentiality. Results of analysis of the dataset **may not be shared beyond the nominated analysts and WSIC analyst/admin team** without anonymisation in accordance with the Information Standards Board Standard for Health Data (ISB 1523), published at http://www.isb.nhs.uk/library/standard/128 . These requirements include suppression of indirect identifiers such as event dates, and the suppression of results representing small cohorts of patients.

Application of PCD checks on the de-identified data set

A PCD (personal confidential data) checker is applied to the de-identified data set. The PCD checker software is run to audit databases that have been loaded with data, signposting records which may contain PCD data. PCD Checker then examines each table in turn by going through every record in every column to determine whether it contains columns of any of the following:

1. date of birth - identifying all columns held in a large variety of date formats
2. post code - selected using an algorithm which checks on a variety of postcode formats
3. NHS number - using NHS England NHS number algorithm

If the software finds a record containing any one of the above it copies the value found together with the reference to the record into an output table.

Principles of De-identified Dataset Access: Technical context

- De-identified dataset that is the activity backing to the Care Professional dashboard
- Access will be provided to the underlying SQL Server database
- Access is role based and user usage will be audited as per obligations within the ISA for auditing all access to the data warehouse and associated dashboards
- Data will be available at patient level
- For Brent CCGs we only have data for over 18s. We have started the transition to all patients. Please see population data segments for specific CCGs below:

CCG	Population Data Segment
Brent	All Adults
Harrow	All Patients
Hillingdon	All Patients
Central London	All Patients
Hounslow	All Patients
Hammersmith & Fulham	All Patients
West London	All Patients
Ealing	All Patients

- We do not receive data where patients have informed their GP that they do now wish for their healthcare records to be shared (approx. 5% of patients).
- Coded health information relating to sensitive conditions and treatments are nullified within the patient record. The codes used to define this can be found on the Whole Systems website: http://integration.healthiernorthwestlondon.nhs.uk/Images/upload/Resources%20Documents/WSIC%20Read%20Codes%20and%20Sensitive%20Codes%20V2.pdf
- We have also started receiving children's data
- The de-identified dataset has been de-identified as follows:
    - ✓ Local identifiers, e.g. hospital patient number = not present
    - ✓ NHS number = Patient database Key
    - ✓ Full Postcode = Postcode Sector, first 3 letters and numbers
    - ✓ DOB = Blanked out (but age will be available in the consolidated table).
- Please find below table showing frequency of data updates.

Data Type	Frequency of Update	Updated by
SUS (Secondary User Services) data	Monthly	NELCSU
SLAM	Monthly	NELCSU
EMIS	Weekly	Apollo Medical
TPP SystmOne	Weekly	Apollo Medical
Mental Health	Monthly	NELCSU
Community	Monthly	NELCSU
Social Care	Monthly	Each Borough submit through secure transfer to NEL CSU (currently not getting data from Hillingdon and Harrow)

Scheduled Up Date of De-identified Dataset

The Database is updated on a monthly cycle, with new data acquired by the WSIC Live database. This occurs on the 2nd Saturday of each month. You will be able to see the change in each view as the column 'Date Today' will have a changed.

Principles of De-identified Dataset Access: Reminder of the obligations in the NWL Digital ISA

The NWL Digital Information Sharing Agreement

Section 9.1 of the NWL Digital ISA sets out obligations of users of the de-identified dataset, including that the user:

1. Will not seek to re-identify data in the WSIC De-identified Dataset;
2. Will not use the data to identify any individual or make any decisions relating to any individual; and
3. Will not link the data to any further datasets containing personal data.

The NWL Digital ISA can be found on the WSIC website:

https://www.healthiernorthwestlondon.nhs.uk/sites/nhsnwlondon/files/uploadedfiles/4comadmin/files/20170220%20Digital%20ISA%20LLMC%20CCG%20Statement%20FINAL.pdf

Please note, users are not allowed to copy, cut, paste or otherwise remove data from this environment. This is to ensure data is only used for the permitted purpose for which access was granted.

PID field anonymisation

VIEW	FIELDS	PID Field	Check
GP Activity	NHS Number	PID Field	Pseudonymised
LTC's	NHS Number	PID Field	Pseudonymised
LTC's	Postcode	PID Field	Blank
LTC's	Forename	PID Field	Blank
LTC's	Surname	PID Field	Pseudonymised
LTC's	Emergency Contact Number	PID Field	Blank
LTC's	Work Telephone Number	PID Field	Blank
Patient Diagnosis	NHS Number	PID Field	Pseudonymised
Patient History	NHS Number	PID Field	Pseudonymised
Patient History	Postcode	PID Field	Blank
Patient History	Forename	PID Field	Blank
Patient History	Surname	PID Field	Pseudonymised
Patient History	Emergency Contact Number	PID Field	Blank
Patient History	Work Telephone Number	PID Field	Blank
Patient Procedures	NHS Number	PID Field	Pseudonymised
Prescribing	NHS Number	PID Field	Pseudonymised
Prescribing	Postcode	PID Field	Blank
Prescribing	Forename	PID Field	Blank
Prescribing	Surname	PID Field	Pseudonymised
Prescribing	Emergency Contact Number	PID Field	Blank
Prescribing	Work Telephone Number	PID Field	Blank
Watch list	NHS Number	PID Field	Pseudonymised
Watch list	Postcode	PID Field	Blank
Watch list	Forename	PID Field	Blank
Watch list	Surname	PID Field	Pseudonymised
Watch list	Emergency Contact Number	PID Field	Blank
Watch list	Work Telephone Number	PID Field	Blank
Watch list	Ethnicity Description	PID Field	Blank

Table 1.1: PID field anonymisation

View One- Long Term Conditions

Patient Key
NHS Number
Patient Segment Description
Postcode
Gender
Forename
Surname
Emergency Contact Number
TP
Work Telephone Number
Latitude
Longitude

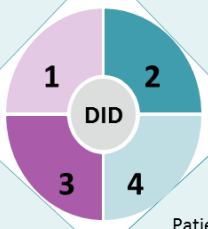
GP Code
GP Name
CCG Code
CCG Name
Long Term Condition Name
Number of LTCs
Data source
Setting of Care
Spend
Consent Given Date
Patient Consent Flag

View Two- Patient Prescribing

Patient Key
NHS Number
Patient Segment Description
Postcode
Gender
Forename
Surname
Emergency Contact Number
TP
Work Telephone Number
Issue Date

GP Code
GP Name
CCG Code
CCG Name
Data Source
Setting of Care
Prescriber
Drug Name
Directions
Supply
Last Issue Date
Spend
Consent Given Date
Current Prescription

Prescription Status
Description
Issue Type
Description
Date Today
Patient Consent Flag



View Three – Patient History

Patient Key
NHS Number
Patient Segment Description
Postcode
Gender
Forename
Surname
Emergency Contact Number
TP
Work Telephone Number
Full date
Latitude
Longitude
Time

GP Code
GP Name
CCG Code
CCG Name
Cost Group
Data Source
Setting of Care
Care type
Provider of care
Reason
Outcome
Clinician Name
Length of Stay

Spend
Consent Given
Date
Date Today
Patient Consent
Flag
Staff Role Type
Encounter type

View Four- Patient Procedure

Patient Key
NHS Number
Patient Segment
Description
Event Date
GP Code
CCG Code
CCG Name
Data source
Care setting

Care Provider
Care Provider site
OPCS4 Procedure
4 letter code
Care Provider site
OPCS4 Procedure
4 letter name
OPCS4 Procedure
3 letter code
Care Provider site
OPCS4 Procedure
3 letter name

OPCS4 Chapter code
OPCS4 Procedure Chapter name
Spend
Date today
Patient Consent Flag

View Five- GP Activity

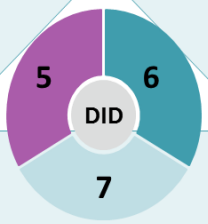
Patient Key
NHS Number
Patient Segment Description
Event Date
GP Code
GP Name
CCG Code
CCG Name
Data Source
Setting of Care
Providing GP Practise
Read Code V2
Event description
Read Code L4

Read Code L4 Description Read Code L3
Read Code L3 Description
Read Code L2
Read Code L2 Description
Read Code L1
Read Code L1 Description
Value 1
Value 2
Spend
Date Today
Patient Consent Flag

View Six- Patient Diagnosis

Patient Key
NHS Number
Patient Segment Description
GP Code
GP Name
CCG Code
CCG Name
Data Source
Setting of Care

Care Provider
Care Provider site
ICD10 Diagnosis 4 Letter Code
ICD10 Diagnosis 4 Letter Description
ICD10 Diagnosis 3 Letter Code
ICD10 Diagnosis 3Letter Description
ICD10 Diagnosis Range Name
Spend
Date Today
Patient Consent Flag



View Seven– Watch List

Patient Key
NHS Number
Patient Segment Description
Postcode
Gender
Forename
Surname
Emergency Contact Number
TP
Ethnic Description
Work Telephone Number

CCG Name
GP Name
CCG Code
GP Code
Consent Given Date
Watch List Reason Name

Watch List Time Lag
Watch List value
Added to watch list date
On watch list
Number of Watch Lists
Has Care Plan

Care plan date
Community care user
Mental Health user
Social Care user
Care plan out of date
Total Cost SLAM
Number of LTCs
Reporting End date
Date today
GP practise network name
ACP name
Patient Consent Flag

Brief Explanation of Views, Tables and their field's description:

View | GP Activity

This View gives the information of Patient's GP activity. This view includes only data from the past two years. A list of all GP activities entered in the clinical database with a read code. There will be one row for each recorded Activity code. These records come directly from the GP data feed.

Field Name	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number (De-identified)	Pseudonymised field
[PatientSegmentDescription]	The description of Patient's Segment e.g.: Mostly healthy older people, Adults with one or more long-term conditions etc.	Mostly healthy older people, Adults with one or more long-term conditions etc.
[EventDate]	The date when the event happened	In YYYY-mm-DD format
[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[DataSource]	The type of file released by Apollo	GP Events
[SettingOfCare]	The setting where care took place	Primary care
[ProvidingGPPractice]	Combination of GP Code and GP Name	E86007 - HAREFIELD PRACTICE
[ReadCodeV2]	Read code	8H53.
[EventDescription]	Read code description	ENT referral
[ReadCodeL4]	Same as ReadCodeV2	8H53.
[ReadCodeL4Description]	Description of ReadCodeL4	ENT referral
[ReadCodeL3]	Parent of ReadCodeL4	8H5..
[ReadCodeL3Description]	Description of ReadCodeL3	Referral to surgeon
[ReadCodeL2]	Parent of ReadCodeL3	8H...
[ReadCodeL2Description]	Description of ReadCodeL2	Referral for further care
[ReadCodeL1]	Parent of ReadCodeL2	8....
[ReadCodeL1Description]	Description of ReadCodeL1	Other therapeutic procedures
[Value1]	The Value associated with the Read code	e.g.: For the Read code (22K..) Body Mass Index the value associated for a patient is 24.20

[Value2]	The Secondary value that is associated with the Read code	
[Spend]	A placeholder for GP cost - this is the GP practice budget apportioned to activity	NULL
[DateToday]	The date of the most recent data loaded into the WSIC database.	In YYYY-mm-DD format
[PatientConsentFlag]	Old Consent Flag predating WSIC program	Value 1 if the Patient is explicitly consented, value 0 if the patient is not

USE THIS TABLE FOR: Finding GP read codes.

View | Long Term Conditions

LTCs stand for Long Term Conditions. This is a list of all patients in the database. Each patient has a row with a true or false indicator for all 41 long term conditions recorded. The data set uses QOF 14/15 algorithm for adults. There is also an indicator at the end of the tables with will give the total number of LTCs.

The QOF Logic suggests that it will not calculate the following condition for the respective age groups:

- Obesity is not present for under-16's
- Rheumatoid Arthritis is not present for under-16's
- Diabetes is not present for under-17's
- CKD is not present for under-18's
- Depression is not present for under-18's
- Epilepsy is not present for under-18's
- Osteoporosis is not present for under-50's (though for unknown reasons this is not appearing for any patients at present)

Field Name	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number (De-identified)	Pseudonymised field
[Age]	Age of the Patient	33
[PatientSegmentDescription]	The description of Patient's Segment	e.g.: Mostly healthy older people, Adults with one or more long-term conditions etc.
[Postcode]	Postcode details	Blank field
[Gender]	Gender of the Patient	Male, Female etc.
[Forename]	Forename of the Patient	Blank field
[Surname]	Surname of the Patient	Pseudonymised field
[EmergencyContactNumber]	Emergency Contact Number of the Patient	NULL
[TP]	The Various values we have for TP are NULL,DEFAULT NULL, DEFAULT UNKNOWN	NULL,DEFAULT NULL, DEFAULT UNKNOWN
[WorkTelephoneNumber]	Work Telephone Number of a Patient	NULL
[Latitude]	Latitude	NULL
[Longitude]	Longitude	NULL

[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[LongTermConditionName]	The name of the Long Term Condition if the Patient has any	Diabetes, Hypertension etc.
[NumberOfLTCs]	Number of LTCs for a patient	3
[DataSource]	The type of file released by Apollo	LTC's
[SettingOfCare]	The setting where care took place	LTC's
[Spend]	The information on the spend	NULL
[ConsentGivenDate]	The date when the Patient given the consent to share their data	In YYYY-mm-DD format
[DateToday]	The date of the most recent data loaded	In YYYY-mm-DD format
[PatientConsentFlag]	Old Consent Flag predating WSIC program	Value 1 if the Patient is explicitly consented, value 0 if the patient is not

List of Long Term Conditions;

- Anxiety
- Asthma
- Ataxia
- Ataxia-Telangiectasia
- Atrial Fibrillation
- Cancer
- Cerebral Palsy
- CHD
- CKD
- COPD
- Dementia
- Depression
- Diabetes
- Dystonia Primary Idiopathic
- Encephalitis
- Epilepsy
- Essential Tremor
- Heart Failure
- Huntington's Disease
- Hypertension
- Hypothyroidism
- Ischaemic Heart Disease
- Learning Disability
- Mental Health
- Motor Neurone Disease
- Multiple Sclerosis
- Multiple System Atrophy
- Muscular Dystrophy
- Myalgic Encephalomyelitis
- Myasthenia Gravis
- Obesity
- Palliative Care
- Parkinson's Disease
- Peripheral Arterial Disease
- Progressive Supranuclear Palsy
- Rheumatoid Arthritis
- Spina Bifida and Hydrocephalus
- Stroke & TIA
- Transverse Myelitis

View | Patient Diagnosis

This is 2 years' worth of history for a registered patient at a participating practice. There will be a row for each diagnoses code that has been received from an acute provider with the accompanying ICD10Diganosis 3 and 4 letter code.

Fieldname	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number(De-identified)	Pseudonymised field
[PatientSegmentDescription]	The description of Patient's Segment	Mostly healthy older people, Adults with one or more long-term conditions etc.
[EventDate]	The date when the event happened	In YYYY-mm-DD format
[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[DataSource]	The source of the data	SLAM
[CareSetting]	The setting where care took place	Day Case, Elective Inpatients, Non Elective Inpatients, Non Elective Short Stay, Outpatient First Attendance, Outpatient Follow Up Attendance, Outpatient Procedures
[CareProvider]	The trust that provides the care for the patient	RYJ - IMPERIAL COLLEGE HEALTHCARE NHS TRUST
[CareProviderSite]	The site in the trust where the care is provided	RYJ01 - ST MARY'S HOSPITAL (HQ)
[ICD10Diagnosis4LetterCode]	Diagnosis4 Letter Code	Z138
[ICD10Diagnosis4LetterDescription]	Diagnosis4 Letter Code description	Special screening examination for other specified diseases and disorders
[ICD10Diagnosis3LetterCode]	Parent of Diagnosis4 Letter Code	Z13
[ICD10Diagnosis3LetterDescription]	Diagnosis3 Letter Code description	Special screening examination for other diseases and disorders
[ICD10DiagnosisRangeName]	The name of given to a range of ICD10 categories	Examination and investigation

	(sometimes also called as Blocks)	
[Spend]	The information on the spend	NULL
[DateToday]	The date of the most recent data loaded into the WSIC database.	In YYYY-mm-DD format
[PatientConsentFlag]	Old Consent Flag predating WSIC program	Value 1 if the Patient is explicitly consented, value 0 if the patient is not

View | Patient History

This is 2 years' worth of history for a registered Patient at a participating practice. There will be a row for each activity that has come from a data stream received, including but not limited to Primary Care, Acute and Community Providers.

Fieldname	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number (De-identified)	Pseudonymised field
[Age]	Age of the Patient	33
[PatientSegmentDescription]	The description of Patient's Segment e.g.: Mostly healthy older people, Adults with one or more long-term conditions etc.	Mostly healthy older people, Adults with one or more long-term conditions etc.
[Postcode]	Postcode details	Blank field
[Gender]	Gender of the Patient	Male, Female etc.
[Forename]	Forename of the Patient	Blank field
[Surname]	Surname of the Patient	Pseudonymised field
[EmergencyContactNumber]	Emergency Contact Number of the Patient	NULL
[TP]	The Various values we have for TP are NULL,DEFAULT NULL, DEFAULT UNKNOWN	NULL,DEFAULT NULL, DEFAULT UNKNOWN
[WorkTelephoneNumber]	Work Telephone Number of a Patient	NULL
[FullDate]	The date when the activity happened	In YYYY-mm-DD format
[Latitude]	Latitude	NULL
[Longitude]	Longitude	NULL
[Time]	Time stamp	In hh:mm:ss format
[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[CostGroup]	Description of how the cost is applied to the activity	AB06Z - Minor Pain Procedures
[DataSource]	The source of the data eg: SLAM, SUS, Community etc.	SLAM, SUS, Community etc.
[SettingOfCare]	e.g.: Primary care - care planning, Outpatient (Acute)	Primary care - care planning, Outpatient (Acute) etc.
[CareType]	The type of care provided for a patient e.g.: Planned acute	Planned acute hospital care, Planned care outside

	hospital care, Planned care outside acute hospital	acute hospital
[ProviderOfCare]	The trust that has provided the Care	EALING HOSPITAL NHS TRUST
[Reason]	The reason the care provided e.g.: Acute respiratory failure, Acute stress reaction	Assessment
[Outcome]	The outcome of the care e.g.: Surgical removal of wisdom tooth NEC	Adult Services - District Nursing
[ClinicianName]	The name of the Clinician who provided the Care	
[LengthOfStay]	The number of days that a Patient stayed in the hospital	
[Spend]	The commissioner cost for this activity	65.41155
[ConsentGivenDate]	The date when the Patient given the consent	In YYYY-mm-DD format
[DateToday]	The date of the most recent data loaded into the WSIC database.	In YYYY-mm-DD format
[PatientConsentFlag]	Flag whether a patient has consented to share their data	value 1 if the Patient is explicitly consented, value 0 if the patient is not
[StaffRoleType]	The role of the staff e.g.: Physiotherapist, Practice Nurse	PHYSIOTHERAPIST,PRACTICE NURSE
[EncounterType]	e.g.: NIGHT VISIT,SURGERY	NIGHT VISIT,SURGERY

USE THIS TABLE FOR:
When the column CareType included "(Raw Data)" this comes from data feed that is directly from the provider. These rows are not costed.
This table has all historic data available in the view. If you are looking for a specific setting of care use the WHERE clause and data source. See example below:

Please see below for the SQL code:
Where DataSource = 'SocialCare'
Where DataSource = 'Community'

View | Patient Procedures

This is 2 years' worth of history for a registered patient at a participating practice. There will be a row for each procedures code that has been received from an acute provider with the accompanying OPCS4 Procedure 3 and 4 letter code.

Fieldname	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number (De-identified)	Pseudonymised field
[PatientSegmentDescription]	The description of Patient's Segment e.g.: Mostly healthy older people, Adults with one or more long-term conditions etc.	Mostly healthy older people, Adults with one or more long-term conditions etc.
[EventDate]	The date when the event happened	In YYYY-mm-DD format
[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[DataSource]	The source of the data	SLAM
[CareSetting]	e.g.: Day Case, Critical Care, Elective Inpatients	DC(Day Case),EL(Elective Inpatients),NEL(Non Elective Inpatients),NELST(Non Elective Short Stay),OPFA(Outpatient First Attendance),OPFUP(Outpatient Follow Up Attendance),OPPROC(Outpatient Procedures)
[CareProvider]	The trust that provides the care for the patient	RYJ - IMPERIAL COLLEGE HEALTHCARE NHS TRUST
[CareProviderSite]	The site in the trust where the care is provided	RYJ01 - ST MARY'S HOSPITAL (HQ)
[OPCS4Procedure4LetterCode]	The Letter Code for OPCS4 Procedure4	U217
[OPCS4Procedure4LetterName]	The Letter Name for OPCS4 Procedure4	Plain x-ray NEC
[OPCS4Procedure3LetterCode]	Parent of OPCS4 Procedure4 Letter Code	U21
[OPCS4Procedure3LetterName]	The Letter Name for OPCS4 Procedure3	Diagnostic imaging procedures
[OPCS4ProcedureChapterCo	The Chapter Code for OPCS4	U

de]	Procedure	
[OPCS4ProcedureChapterName]	The Chapter Name for OPCS4 Procedure	DIAGNOSTIC IMAGING, TESTING AND REHABILITATION
[Spend]	The information on spend	NULL
[DateToday]	The date of the most recent data loaded into the WSIC database.	In YYYY-mm-DD format
[PatientConsentFlag]	Old Consent Flag predating WSIC program	Value 1 if the Patient is explicitly consented, value 0 if the patient is not

View | Prescribing

This is a list of all Prescriptions completed in Primary Care. This will give the number of issues prescriptions, including repeat or acute issue type.

Fieldname	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number (De-identified)	Pseudonymised field
[Age]	Age of the Patient	33
[PatientSegmentDescription]	The description of Patient's Segment healthy older people, Adults with one or more long-term conditions etc.	Mostly healthy older people, Adults with one or more long-term conditions etc.
[Postcode]	Postcode details	Blank field
[Gender]	Gender of the Patient	Male, Female etc.
[Forename]	Forename of the Patient	Blank field
[Surname]	Surname of the Patient	Pseudonymised field
[EmergencyContactNumber]	Emergency Contact Number of the Patient	NULL
[TP]	The Various values we have for TP are NULL,DEFAULT NULL, DEFAULT UNKNOWN	NULL,DEFAULT NULL, DEFAULT UNKNOWN
[WorkTelephoneNumber]	Work Telephone Number of the Patient	NULL
[IssueDate]	The date when the drug is prescribed	In YYYY-mm-DD format
[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[DataSource]	The type of file released by Apollo	GP Prescribing
[SettingOfCare]	The setting where care took place	Primary Care
[Prescriber]	The practice who gave the prescription	E86007 - HAREFIELD PRACTICE
[DrugName]	The Drug that has been prescribed	Pregabalin 50mg capsules
[Directions]	Directions on how to take the drug	
[Supply]	The quantity of the drug that has been prescribed	112

[LastIssueDate]	The date when the same drug was last Prescribed	In YYYY-mm-DD format
[Spend]	The information on spend	NULL
[ConsentGivenDate]	The date when the Patient given the consent	In YYYY-mm-DD format
[CurrentPrescription]	Numeric value	value 1 if the prescription is current, value 0 if the prescription is not current
[PrescriptionStatusDescription]	The status of the prescription e.g.: Current, Previous etc.	Current, Previous etc.
[IssueTypeDescription]	The type of the prescription For e.g.: Repeat, Acute	Repeat, Acute
[DateToday]	The date of the most recent data loaded into the WSIC database.	In YYYY-mm-DD format
[PatientConsentFlag]	Old Consent Flag predating WSIC program	Value 1 if the Patient is explicitly consented, value 0 if the patient is not

View | Watch List

The watch list contains a list of all patients in the database. There is a flag of the watch list all patients correspond to, if a patient is on multiple watch lists they will have multiple rows to correspond. If a patient is not on a watch list they will have a flag for not on a watch list.

Note, if a Patient is on the watch list for has multiple Care Plans, they will have one row for Care Plan Watch List.

Fieldname	Description	Sample data
[PatientKey]	Unique identifier to identify a patient's record	1166747
[NHSNumber]	NHS Number (De-identified)	Pseudonymised field
[Age]	Age of the Patient	33
[PatientSegment Description]	The description of Patient's	Mostly healthy older people, Adults with one or more long-term conditions etc.
[Postcode]	Postcode details	Blank field
[Gender]	Gender	Male, Female etc.
[Forename]	Forename	Blank field
[Surname]	Surname	Pseudonymised field
[EmergencyContactNumber]	Emergency Contact Number for the Patient	NULL
[TP]	The Various values we have for TP are NULL,DEFAULT NULL, DEFAULT UNKNOWN	NULL,DEFAULT NULL, DEFAULT UNKNOWN
[EthnicityDescription]	The Ethnicity information of the patient	British, Asian
[WorkTelephone Number]	Work Telephone Number of the Patient	NULL
[GPCode]	The GP Practice Code	E86028
[GPName]	The GP Name	HAREFIELD PRACTICE
[CCGCode]	The CCG Code	08G
[CCGName]	The CCG Name	NHS HILLINGDON CCG
[ConsentGivenDate]	The date when the Patient given the consent to share their data	In YYYY-mm-DD format
[WatchListReasonName]	The reason the patient for being in the watch list	Heavy A&E User, Care plan out of date
[WatchListTimeLag]	0 describes the rows are generated in the most recent run in the watch list, 1 for previous run and patient without watch list will have a value of 0	0;1

[WatchListValue]	Populated for Patients in Heavy A&E User / Regular inpatient attender and the corresponding number of attendances	3 ;NULL describes Patient does not fall in that category
[AddedToWatchListDate]	The date when the Patient is added to the watch list	In YYYY-mm-DD format
[WatchListReasonKey]	The numeric value column for the watch list reason	11
[OnWatchList]	Has a Value of 1 if the Patient is on Watch List and a Value of 0 if the Patient is not on Watch List	Value of 1 if the Patient is on Watch List and a Value of 0 if the Patient is not on Watch List
[NumberOfWatchLists]	The number of watch lists that the Patient is on	2
[HasCarePlan]	Numeric value to describe if a patient has care plan or not	Value of 1 if the Patient has Care plan and a Value of 0 if the Patient does not have Care plan
[CarePlanDate]	The date when the Care Plan created for the Patient	In YYYY-mm-DD format
[CommunityCareUser]	Has a Value of 1 if the Patient is Community Care User and a Value of 0 if the Patient is not a Community Care User	Value of 1 if the Patient is Community Care User and a Value of 0 if the Patient is not a Community Care User
[MentalHealthUser]	Has a Value of 1 if the Patient is Mental Health User and a Value of 0 if the Patient is not a Mental Health User	Value of 1 if the Patient is Mental Health User and a Value of 0 if the Patient is not a Mental Health User
[SocialCareUser]	Has a Value of 1 if the Patient is Social Care User and a Value of 0 if the Patient is not a Social Care User	Value of 1 if the Patient is Social Care User and a Value of 0 if the Patient is not a Social Care User
[CarePlanOutOfDate]	Has a Value of 1 if the Care Plan is Out Of Date and a Value of 0 if the Care Plan is not Out of Date	Value of 1 if the Care Plan is Out Of Date and a Value of 0 if the Care Plan is not Out of Date
[TotalCost_SLAM]	Year to date sum of GP mental health, community and acute(OP,NEL,EL and A&E) spend	1015.8359
[NumberOfLTCs]	Number of Long term conditions that a Patient has	3
[ReportingEndDate]		In YYYY-mm-DD format
[DateToday]	The date of the most recent data loaded into the WSIC database.	In YYYY-mm-DD format

[GPPracticeNetworkName]	The Network for the GP Practice	Kingsbury
[ACPName]	The ACP name	Ealing CCG
[PatientConsent Flag]	Old Consent Flag predating WSIC program	Value 1 if the Patient is explicitly consented, value 0 if the patient is not

USE THIS TABLE FOR: Patient Counts, query for your desired area and use this to join with other tables.

Please see below for the SQL code:

```
SELECT Distinct PatientKey
```

Watch list Definitions and Calculation:

- **New diagnosis in the past 2 months:** this watch list contains patients who have been diagnosed with an LTC in the past two months, in either primary or acute care settings. SLAM and GP data are used.
- **Regular inpatient attender:** this watch list contain patients who use acute inpatient services the most. It is ordered by the number of non-elective inpatient admissions over the past six months. SLAM data is used.
- **DNA in the past 2 months:** this watch list contains patients who have not attended an outpatient or community appointment in the past two months. SUS and Community data are used.
- **Heavy A&E User:** this watch list contains patients who have used A&E and UCC services two or more times in the last 6 months. It is ordered by the number of times a patient has attended A&E/UCC with the highest at the top. SLAM data is used.
- **Care plan out of date:** this watch list contains patients who have not had a care plan review either since their last A&E attendance or NEL admission, or in the past 12 months. You will see 1 of 5 descriptions; Advanced Care Plan out of Date, Asthma Care Plan out of Date, Care plan out of date, Dementia Care Plan out of Date or Diabetes Care Plan out of Date. SLAM and GP data are used.
- **No watch list:** this would indicate that the patient does not fall within any of the other watch list.

Table | ReportingeFI_Deficits

This View gives the information of eFI score and count. This table is updated every time the data is updated. There is no historic score kept on the table. This is a list all eFI deficits and indicates a 1 or 0 for yes or no, respectively. Only Patients whom trigger at least 1 deficit are in the eFI table.

The eFI score is calculated from over 2000 GP read codes and filters into 36 deficits. The score are then categorised into Fit (0 to 4), Mild (5 to 7), Moderate (8 to 11) or Severe (12+).

Field Name	Description	Sample data
[NHSOrganisationKey]	Key for GP Practice	22765
[PatientKey]	Unique identifier for patient's record	1 to 8 numerical character number
[Activity limitation]	Patient activates deficit for Activity Limitation	1 or 0
[Anaemia & haematinic deficiency]	Patient activates deficit for Anaemia & haematinic deficiency.	1 or 0
[Arthritis]	Patient activates deficit for Arthritis.	1 or 0
[Atrial fibrillation]	Patient activates deficit for Atrial fibrillation.	1 or 0
[Cerebrovascular disease]	Patient activates deficit for Cerebrovascular disease.	1 or 0
[Chronic kidney disease]	Patient activates deficit for Chronic kidney disease.	1 or 0
[Diabetes]	Patient activates deficit for Diabetes.	1 or 0
[Dizziness]	Patient activates deficit for Dizziness.	1 or 0
[Dyspnoea]	Patient activates deficit for Dyspnoea.	1 or 0
[Falls]	Patient activates deficit for Falls.	1 or 0
[Foot problems]	Patient activates deficit for Foot problems.	1 or 0
[Fragility fracture]	Patient activates deficit for Fragility fracture.	1 or 0
[Hearing impairment]	Patient activates deficit for Hearing impairment.	1 or 0
[Heart failure]	Patient activates deficit for Heart failure.	1 or 0
[Heart valve disease]	Patient activates deficit for Heart valve disease.	1 or 0
[Housebound]	Patient activates deficit for Housebound.	1 or 0

[Hypertension]	Patient activates deficit for Hypertension.	1 or 0
[Hypotension / syncope]	Patient activates deficit for Hypotension / syncope.	1 or 0
[Ischaemic heart disease]	Patient activates deficit for Ischaemic heart disease.	1 or 0
[Memory & cognitive problems]	Patient activates deficit for Memory & cognitive problems.	1 or 0
[Mobility and transfer problems]	Patient activates deficit for Mobility and transfer problems.	1 or 0
[Osteoporosis]	Patient activates deficit for Osteoporosis.	1 or 0
[Parkinsonism & tremor]	Patient activates deficit for Parkinsonism & tremor.	1 or 0
[Peptic ulcer]	Patient activates deficit for Peptic ulcer.	1 or 0
[Peripheral vascular disease]	Patient activates deficit for Peripheral vascular disease.	1 or 0
[Polypharmacy]*	Patient activates deficit for Polypharmacy.	0
[Requirement for care]	Patient activates deficit for Requirement for care.	1 or 0
[Respiratory disease]	Patient activates deficit for Respiratory disease.	1 or 0
[Skin ulcer]	Patient activates deficit for Skin ulcer.	1 or 0
[Sleep disturbance]	Patient activates deficit for Sleep disturbance.	1 or 0
[Social vulnerability]	Patient activates deficit for Social vulnerability.	1 or 0
[Thyroid disease]	Patient activates deficit for Thyroid disease.	1 or 0
[Urinary incontinence]	Patient activates deficit for Urinary incontinence.	1 or 0
[Urinary system disease]	Patient activates deficit for Urinary system disease.	1 or 0
[Visual impairment]	Patient activates deficit for Visual impairment.	1 or 0
[Weight loss & anorexia]	Patient activates deficit for Weight loss & anorexia.	1 or 0
[Score]	All above deficits activated by a patient, added up and divided by the total 36.	Decimal between 0.1 and 0.9
[Count]	A count of all above listed deficits.	Integer between 1 and 36

*Polypharmacy is currently not calculated in the eFI table. This is in development.
USE THIS TABLE FOR: Categorising frailty as defined in the eFI deficits.

Please see below for the SQL code:

```
Case
        When eFI.[Count] <= 4 then 'Fit'
        When eFI.[Count] between 5 and 7 then 'Mild'
        When eFI.[Count] between 8 and 11 then 'Moderate'
        When eFI.[Count] >= 12 then 'Severe'
        Else 'Fit'
    END AS eFICategory
```

Recurring Fields explained

Patient Segments; All patients with a Registered Status of 'R' will have a Patient Segment. There are segments divided by Age and Long Term conditions. The patient segments are cascading and each patient can only activate one patient segment. There are 8 patient segments listed below with the corresponding segment details.

Children: Flag based on age <18.

Adults and older people with severe physical disabilities: Severe physical disability based on social care data, people aged 18 and above who have a FACS eligible physical disability. This segment excludes physical disabilities, including sensory disabilities, which are not FACS eligible: eligibility includes an inability to perform 3 or more household tasks.

Adults and older people with learning disabilities: People aged 18 and above who have difficulty learning in a typical manner that affects academic, language and speech skills. This excludes mild conditions that do have an impact on social relationships or work.

Adults and older people with advanced dementia or Alzheimer's disease: People aged 18 and above that are FACS eligible because of cognitive decline resulting from a medical disease rather than a psychiatric illness. This includes dementia as well as other conditions such as Huntington's and Parkinson's disease.

Adults and older people with severe and enduring mental illness: People aged 18 and above that have a mental health problem (typically people with schizophrenia or severe affective disorder) that experience a substantial disability as a result of their mental health problems, such as an inability to care for themselves independently, sustain relationships or work.

Older people with one or more long-term conditions: People aged 65 and over, that have one or more long-term conditions, e.g. COPD, diabetes, heart disease. This includes common mental illnesses, e.g. depression, anxiety and includes physical disability.

Adults with one or more long-term conditions: People aged between 18-64 that have one or more long-term conditions, e.g. COPD, diabetes, heart disease. This includes common mental illnesses, e.g. depression, anxiety and includes physical disability.

Mostly healthy older people: People aged 65 and over that are mostly healthy and do not have LTCs, cancer, severe and enduring mental illness, physical or learning disabilities and advanced stage organic disorders. This includes those that have a defined episode of care, e.g. acute illness with full recovery, maternity.

Mostly healthy adults: People aged between 18-64 that are mostly healthy and do not have LTCs, cancer, severe and enduring mental illness, physical or learning disabilities and advanced stage organic disorders. This includes those that have a defined episode of care, e.g. acute illness with full recovery, maternity.

Change Requests and raising issues on the de-identified data set

To submit a change request email or raise issues with the WSIC Dashboards Programme Team on WSICdashboards nwlccgs.wsic.dashboards@nhs.net

- Any development requests will need to be raised through this process for consideration at the monthly Clinical Advisory Group (CAG) (chaired by Dr Tony Willis). The role of the CAG is to prioritise change requests to optimise use of the in house development resource and ensure alignment to strategic priorities.

Change Request Form Template.xlsx

- Changes are packaged into monthly releases and communicated via release notes and newsletters.

North West London Collaboration of
Clinical Commissioning Groups

NHS

For more information, please email

nwlccgs.WSIC.Deidentifiede@NHS.net