

Introduction to LabKey A Genomics England Quick Guide

		Document Record ID Ke	y
Work stream			
Programme Director		Status	
Document Owner	PG	Version	1.0
Document Author	RS	Version Date	17/01/2016

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Document History

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1.1 Version History

Version	Date	Author	Description
V0.1	12/05/2016	PG	Draft Version
V0.2	13/05/2016	PG	RS & KF updates
V0.3	28/07/16	СМ	Updated to reflect views NHS GMC will have in August
V0.4,	28/07/16	PG	Minor style amends
0.5			
0.6	30/09/2016	PG	Addition of 'draft' watermark
0.7	24/10/2016	PG	Added reference to Sample Tracking and burst views.
0.8	03/01/2017	PG	Enhanced 'clincial views' section to reflect latest LabKey release
0.9	04/01/2017	RS	Minor updates to reflect future updates to 'clinical views'
1.0	10/01/17	СВ	Addition of contents table, feedback note

1.2 Reviewers

This document must be reviewed by the following:

Name	Area
Nathan Hicks	Application Development
Gavin Mulcahy	Testing

1.3 Approvers

This document must be approved by the following:

Name	Responsibility	Date	Version
Peter Counter	CIO	10/01/17	1.0
Tom Fowler	Caldicott Guardian	25/05/16	0.2
Grant Stapleton	SIRO	25/05/16	0.2



Contents

	1.1	Version History1
	1.2	Reviewers1
	1.3	Approvers1
2	Int	roduction3
3	Ge	tting started4
	3.1	Log in4
	3.2	Click on the folder icon4
	3.3	Select the NHS GMC you wish to review4
	3.4	Choose whether you want to see the Portal View or Mercury view5
4	Me	rcury view5
	4.1	Introduction to Mercury View5
	4.2	How to find participants or other data7
	4.3	Exporting data7
5	NH	S GMC Portal Views8
	5.1	Introduction8
	5.2	Choose a participant8
	5.3	Summary and detailed views8
	5.3	.1 Cancer views9
	5.3	.2 Rare Disease views11
6	lf y	ou need more information14



2 Introduction

This guide is intended to give NHS GMC technical users (e.g. data managers) a first view of the information available on LabKey. The initial functionality focuses on data validation.

The views available and described in this guide are:

- Genomics England Portal View
 - This provides a view of the current state of all data items for individual participant records in an easy read format.
- Mercury view
 - This is a searchable table showing a record of all submissions and updates for participants in your NHS GMC. You will see one row for every update. This view is split by:
 - Rare Disease
 - Cancer
- Sample Tracking view (coming soon)
 - This provides a 'normalised' view of only the most up-to-date, successful submissions to Mercury for any given participant or sample
 - $\circ~$ A guide to this view will be made available when this view is released to GMCs
- Burst View (coming soon)
 - This shows a table with all the burst messages generated, enabling you to sort and filter through your messages to find the ones relevant to you.
 - $\circ~$ A guide to this view will be made available when this view is released to GMCs



3 Getting started

3.1 Log in

👗 LabKey Server

Email	
	7
Password (forgot pass	word)
1	7
Remember my ema	il address
Remember my ema	ill address

3.2 Click on the folder icon



This will take you to the portal links for any NHS GMC you have permission to access.

3.3 Select the NHS GMC you wish to review

Most users will only have one option at this point, but if you have permissions to view data for more than one NHS GMC, you will see one box for each of the NHS GMCs.



Senomics			Q Search Produc	tion LabKey S
■ ► Genomics England Portal				Help 🔻
Genomics England Portal				
	Genomics england Select your portal	By GMC Greater Manchester WHS Genomic Medicine Centre Greater Manchester	Additional GMCs will appear here	

3.4 Choose whether you want to see the Portal View or Mercury view.

You can now select the Portal or Mercury Views via the tab in the top right. Portal views are better for seeing the current status of all the data items for individual participants. Mercury views are generally more useful for seeing all events and submissions for participants and for aggregating data.

Greater Manchester			Portal MeRCURy
	Genomics england Select Cancer or Rare Diseases to view participants	By GMC MM55 Greater Manchester WH5 Genomic Medicine Centre Greater Manchester	
	Back to Portal Selection		

4 Mercury view

4.1 Introduction to Mercury View

When you've selected the Mercury view, you will be asked to choose between Cancer data and Rare Disease data by clicking on the links in blue.

MeRCURy	MeRCURy Data Model Dashboard	
MeRCURy Data Model Selection -		
Welcome to the MeRCURy Data Model Please choose one of the views to see more data from the complete dataset for the MeRCURy data model • Cancer V2.0 • Rare Diseases V1.3		



Once you select Cancer or Rare Disease you are offered and option of

- Core
- Investigations
- Extras

At the current time there is no information available to NHS GMC's via Investigations or Extras options. These views are being developed and will be populated in the coming months.



By selecting Core you will be taken to a searchable database view of all your participants recruited under the relevant programme.

There are separate tabs for different information categories, generally corresponding to the CRFs in OpenClinica.

- ·	MeRCURy								Admin 🗸	Help 🔻 caro
ore										
Part	ticipants	Registratio	n Regis	stration Clinic	al Information	Consent With	rawl Deat	h Diagnosis	Pedigree	Phenotype
Gen	eral Observa	tions In	terventions							
Darti	icinante -									
aiu	icipanto •									
EXP	PORT - PR	INT PAGING	Ŧ				1 - 1	100 of 104 Next >		
EXF	PORT - PR	INT PAGING	Nhs Number	Chi Number	Hospital Number	Date Of Birth	1 - ⁻ Forenames	100 of 104 Next > Surname		
EXF	PORT - PR	Participant Id	Nhs Number 9100056103	Chi Number chi-number0	Hospital Number hospital-number0	Date Of Birth 1976-04-10 00:00:0	1 - ⁻ Forenames) NN	100 of 104 Next> Surname NNNNNN		
EXF	PORT - PR	INT PAGING Participant Id 100000107 100000108	Nhs Number 9100056103 9100056111	Chi Number chi-number0	Hospital Number hospital-number0	Date Of Birth 1976-04-10 00:00:0 1976-04-10 00:00:0	1 - ⁷ Forenames) NN) pedmemfore	Surname NNNNNN pedmemsur		
EXF	PORT - PR	Participant Id 100000107 100000108 100000169	Nhs Number 9100056103 9100056111 9100605212	Chi Number chi-number0 chi-number0	Hospital Number hospital-number0 hospital-number0	Date Of Birth 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0	1 - 7 Forenames) NN) pedmemfore) NN	100 of 104 Next> Surname NNNNNN pedmemsur NNNNNN		
EXF	PORT - PR DETAILS > DETAILS > DETAILS > DETAILS >	Participant Id Porticipant Id 10000107 10000108 100000169 100000170	Nhs Number 9100056103 9100056111 9100605212 9100605220	Chi Number chi-number0 chi-number0	Hospital Number hospital-number0 hospital-number0	Date Of Birth 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0	1 - 7 Forenames NN pedmemfore NN pedmemfore	Surname NNNNNN pedmemsur NNNNNN pedmemsur		
	PORT - PR	INT PAGING Participant Id 10000107 10000108 100000169 100000170 100110007	Nhs Number 9100056103 9100056111 9100605212 9100605220 9090008268	Chi Number chi-number0 chi-number0	Hospital Number hospital-number0 hospital-number0	Date Of Birth 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0 1974-05-08 00:00:0	1 - 7 Forenames NN pedmemfore NN pedmemfore testeruat	Surname NNNNNN pedmemsur NNNNNN pedmemsur testuat		
	PORT - PR	INT PAGING Participant Id 100000107 100000108 100000169 100000170 100110007 100110010	Nhs Number 9100056103 9100056111 9100605212 9100605220 9090008268 9876543210	Chi Number chi-number0 chi-number0	Hospital Number hospital-number0 hospital-number0	Date Of Birth 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0 1976-04-10 00:00:0 1974-05-08 00:00:0 2016-05-09 00:00:0	Forenames NN pedmemfore NN pedmemfore testeruat Janet	Surname NNNNNN pedmemsur NNNNNN pedmemsur testuat Smith		

By selecting the various tabs you can see different views of data for all your participants. Where there have been multiple submissions of any CRF, each submission will be shown on its own row.

This means you may need to perform deduplication if you are using this data for management information.



4.2 How to find participants or other data

On this screen you can sort and filter any column by clicking on the column header.

You can also use the search bar in the top right of the screen to find the information you need.

	LabKey S	Server	Click on	any head	er to sort or	filter		C	or use	e the s	earcl	h bar	Q Searc	h LabKey S	erver		
1 80	Mercury	Cancer V2.0	Rare Disease	sv.3									_	Admin	• Help •	gavin mu	lcahy -
ore	Reg	istration	Consent	Referral	Biagnosis	Withdrawal C	are Plan	Death	Tun	iour Samp	le Info	Ris	k Factor As	sessmen	t Inte	rventions	1
egis	stration +		/														
EXP	ORT- PRIM	T PAGE SIZ	E-				~									1 -	95 of 95
] -	(Participant Identifiers Id	t Event Date	Event Reference	Genomi Medicin Centre Id	Disease Information Tumour Sample Id	Ethnicity	Person Phenotypic Sex Id	Person Stated Gender Id	Surname At Birth	Fh Fathers Ethnic Origin Id	Fh Fathers Ethnic Origin Other	Fh Fathers Other Relevant Ancestry	Fh Mat Fh Of Breast And Or Ovarian Cancer Id	Fh Mat Fh Of Colorectal Cancer Id	Fh Mat Fh Of Endocrine Tumours Id	Fh Mat Of Ischae Heart Diseas Or Stro Id
	DETAILS +	4	2016-04-20	DEMO/R/SS_4	DEMO	Bladder	A	2	2		A			yes	yes	yes	yes
1	DETAILS	5	2016-04-20	DEMO/R/SS_5	DEMO	Malignant Melanoma	к	1	2		8			yes	unknown	yes	yes
3	DETAILS	6	2016-04-20	DEMO/R/SS_6	DEMO	Prostate	L	2	2		M			yes	yes	yes	yes
1	DETAILS	7	2016-04-20	DEMO/R/SS_7	DEMO	Sarcoma	в	2	2		L			no	yes	yes	yes
1	DETAILS	9	2016-04-21	DEMO/R/SS_9	DEMO	Breast	A	1	2		A			yes	yes	yes	yes
8	DETAILS	200	2006-05-04	893	genomic- medicine- centre-id0	Adult Glioma	D	2	2	surname- at-birth0	D	fathers- ethnic- origin- other0	fathers- other- relevant- ancestry0	yes	yes	yes	yes
1	DETAILS	201	2006-05-04	432	123	Adult Glioma	D	2	2	sumame- at-birth1	D	fathers- ethnic- origin- other1	fathers- other- relevant- ancestry 1	yes	yes	yes	yes

The Mercury view shows every update to a participant's details.

4.3 Exporting data

It's possible to export the data in any given view using the export button on the top left. This will export in Excel format to your local machine.

-	Mercury	Cancer V2.0	Rare Disease	is V1.3		
Core	Reg	istration	Consent	Referral	Diagnosis	Withdrawal
Regi	stration -					
EXI	ORT- PRI	NT PAGE SIZE	-	Proved Profession		Discuss 1-1-
		Identifiers Id	Event Date	Event Reference	Medicine Centre Id	Tumour Sample 1
E	DETAILS +	4	2016-04-20	DEMO/R/SS_4	DEMO	Bladder
	DETAILS >	4	2016-04-20 2016-04-20	DEMO/R/SS_4 DEMO/R/SS_5	DEMO DEMO	Bladder Malignant Melan
	DETAILS > DETAILS > DETAILS >	4 5 6	2016-04-20 2016-04-20 2016-04-20	DEMO/R/SS_4 DEMO/R/SS_5 DEMO/R/SS_6	DEMO DEMO DEMO	Bladder Malignant Melan Prostate
	DETAILS > DETAILS > DETAILS > DETAILS >	4 5 6 7	2016-04-20 2016-04-20 2016-04-20 2016-04-20	DEMO/R/SS_4 DEMO/R/SS_5 DEMO/R/SS_6 DEMO/R/SS_7	DEMO DEMO DEMO DEMO	Bladder Malignant Melan Prostate Sarcoma



5 NHS GMC Portal Views

5.1 Introduction

Using the Portal Views allows you a view of the whole participant's record in a Clinical View. To get started, choose the Portal tab in the top right corner and select one of Cancer or Rare Disease.

Genomics england Select Cancer or Rare Diseases to view participants Back to Portal Selection	M/S contre hester	

5.2 Choose a participant

You will initially be presented with a list of all the participants for the NHS GMC you are looking at. To view the full, current dataset for any participant, simply click on the appropriate row in the table.

Participants	Click here	to view participant	t's details			
GRID VIEWS -	REPORTS - C	HARTS - EXPORT -	PRINT	PAGING -	1 - 100 of 13,106	i Next > Last »
Participant	d Nhs Number	Date Of Birth	Forenames	Surname	Chi Number H	ospital Number
10000000	22222222222	2016-06-13 00:00:00	caroline	Moth		
10000010		2016 07 10 00-00-00	Pichard	Scott		

5.3 Summary and detailed views

These views present the data that has been previously submitted by the NHS GMC as well as, in the case of Rare Diseases, information about the medical review and gene panels assigned for the participant.

You will first be presented with a summary view for the participant, which will differ between Rare Disease and Cancer participants.

You can either select the various tabs available for all the data for that participant, or you can simply click through the summary data item you are interested in and you will be automatically taken to the appropriate tab in the top right hand corner.

Please not that these views will be under ongoing development and are likely to change over time.



All	Patients			Portal MeRCURY
MC NHS	Dth, caroline DOB: 13/06/2016 222222222 (Proband, Family Lt. 10000002)			Find detailed info using these tabs
	Participant Summary		Rare Disease Diagnoses	
	Femily Id Participant Id Forenames Summe Dato of Dirth NHS Number Call Number Parson Phenotypis Sex Relationship Varia Intalus Consent status Responsible Consultant	10000002 caroline Moth 13/06/2016 222222222 Female Proband Altre Yes Another Dr	Bpecific Disease Brugeda syndrome Familial Thoracic Antic Aneuryam Disease Other Diagnoses Not affected General Observations No results available	Age of Onset 1 7
	Clinical Tests			

5.3.1 Cancer views

The views for Cancer participants are Summary, Details, Family History, Cancer History, Samples and Documents.

5.3.1.1 Summary

Displays basic participant information, some disease information and a summary of any genetic results submitted by the NHS GMC.

articipant Summary Basic Par	ticipant Info	Cancer Summary Basic disease info
Participant Id	2	No results available
orenames	PETA MARY	
urname	TEST-GRUNARD	
ate of Birth	09/10/1981	
HS Number	9990057966	
HI Number		
erson Phenotypic Sex	Female	
ital status	Alive	
onsent status	Yes	
esponsible Consultant	NOT_PROVIDED	
ospital of Responsible Consultant	RYJ	

5.3.1.2 Details

Displays a complete record of participant details, including identifying information, consultant and referral data, contact information, and consent and withdrawal information.

			crigiui							
TEST-GRUNARD, PETA NHS: 9990057966	A MARY DOB: 09/10/1981	Summary Details Family History (Cancer History Samples Documen							
Participant Information		Referral	Referral							
Participant Id	2	Responsible Consultant	NOT_PROVIDED							
Forenames	PETA MARY	Consultant GMC Number								
Surname	TEST-GRUNARD	Full Name Not Consultant								
Date of Birth	09/10/1981	Contact number								
NHS Number	9990057966	Hospital of Responsible Consultant	RYJ							
CHI Number										
Person Phenotypic Sex	Female									
Ethnicity	Not Stated	Contact Information								
Genomic Medicine Centre	RPY01									
		Participant Email Address								
		Participant Home Telephone	01737256897							
Consent		Participant Mobile Telephone	07958563211							
Date of Consent	14/07/2015									
Name and Version of Consent Form	Patient with cancer(or suspected cancer) Version 2.0, 20.01.2015	Withdrawal								
Consent Given	Yes									
Concept Form	2 concept form 29/10/2015 pdf	No results available								

Genomics

5.3.1.3 Family History

The Family History tab includes details that have been submitted regarding the ethnic origin and any history of disease that has been provided by the NHS GMC.

TEST-GRUNARD, PETA MARY DOB: 09/10/1981 HIS: 9990037966		S	Summary	Summary Details	Summary Details Family History	Summary Details Family History Cancer History	Summary Details Family History Cancer History Samples
Family History		-	-	-		-	-
Mothers Ethnic Origin	Mixed: White and Black African						
Mothers Ethnic Origin Other	Unknown						
Mothers Other Relevant Ancestry	No						
Fathers Ethnic Origin	Mixed: Any other mixed background						
Father Ethnic Origin Other	Unknown						
Fathers Relevant Ancestry	NO						
Maternal Family History of Breast and-or Ovarian Cancer	No						
Maternal Family History of Colorectal Cancer	No						
Maternal Family History of Endocrine Tumours	No						
Maternal Family History of Ischaemic Heart Disease or Stroke	No						
Other Relevant Maternal Family History	TEST						
Paternal Family History of Breast and-or Ovarian Cancer	No						
Paternal Family History of Colorectal Cancer	No						
Paternal Family History of Endocrine Tumours	No						
Paternal Family History of Ischaemic Heart Disease or	No						

5.3.1.4 Cancer History

The Cancer History tab presents a visualisation of the cancer events such as diagnosis, referral and treatments that have been submitted by the NHS GMC.

This tab allows users to view a summary of the cancer timeline, as well as clicking on given events to view more detail, presented below the timeline report.

		Genomics england
Flintstone, Fred DOR NHS: 9467210029 Expand Event Subtypes Clear All	5: 05/01/1976 Filters Cancer History Timeline Report 0.2 0.4 Years Since Wed Jan 13 20	Summary Details Family History Cancer History Samples Documents Event history shown here Selected row highlighted in blue
Cancer History - Filtered for event ty	pe. 1umour Sample	Events on highlighted row shown here
Event Date	Туре	Sub Type
22/01/2016	Tumour Sample	
\$2/01/2016	Tumour Sample	
Tumour Sample Detail of in this s	of highlighted event shown section	
Event Date	22/01/2016 RGT/R/SS_21100000_4345	

5.3.1.5 Samples

The Samples tab is intended to present a view of the current state of samples that have been submitted to Genomics England. At this time, this view remains under development.

5.3.1.6 Documents

Any documents which have been submitted for this participant will be presented here as links.

ST-GRUNARD, PETA MARY	DOB: 09/10/1981		Summary	De	etails	etails Family History	etails Family History Cancer History	etails Family History Cancer History Samples
IS: 9990057966								
ocumente								
ocumenta								
File Name	Document Type	Last Updated						
2_consent_form_28/10/2015.pdf	Consent form	19/06/2016						

5.3.2 Rare Disease views

The views for Rare Disease participants are Summary, Details, Genetic Tests, Observations, Family and HPO.

5.3.2.1 Summary

Information provided in the Summary tab includes basic Participant information such as identifying information, name of the responsible consultant, consent status, Rare Disease and other diagnoses, General Observations where these have been provided by the NHS For Distribution to NHS GMCs



GMC, details of other family members recruited (with hyperlinks to their data) and details of HPO terms entered as present or absent and, if available, information about the family's pre-interpretation 'medical review'.

From late January 2017, this view will also contain an image of the current pedigree for the family. Once released for NHS GMC use, the Pedigree Editor will be accessible through a link here to allow pedigrees to be created and edited.

Mouse, Micky NHS: 222222222 (Proban Family Medical Review: Ao sta Participant Medical Review: A	DOB: 12/07/20 d, Family Id: 656564) ate assigned waiting medical review	16				Summary	Details	Genetic Tests	Observations	Family	HPO
Participant Summary					Rare Disease I	Diagnoses					
Family Id		656564			Specific Disease Age of Onset						
Participant Id		100110033			Eamilial caret	val email veccel	disease		5		
Forenames		Micky			r anniar cerei	nai sinaii vessei	uisease		5		
Surname	Surgame Moure										
Data of Bitth 12/07/2016											
					Other Diagnos	es					
NHS Number											
CHI Number		5			Not affected						
Person Phenotypic Sex		Female									
Relationship		Proband									
Disease Status		Familial cerebral sm	nall vessel disease								
Vital status		Dead			General Obser	vations					
Consanguinity		U						_			
Consent status		Yes			Measurement		Value	Туре		Date	
Responsible Consultan	t	me			Head Circum	erence	50.00 c	m Measure	d	08/08/201	6
Family Medical Review: No state	e assigned										
Participant Id	Name	DOB	Relationship	Disease	Disease Status				oant Medical Revie	ew	
100110033	Micky Mouse	12/07/2016	Proband	Familial	cerebral small ves	sel disease		Awaitir	ig medical review		
Phenotype Statement HPO Term Migraine with aura Unilateral deafness Reduced consciousne Anxiety Diabetes mellitus	ess/confusion		Present Yes Yes Yes Yes Yes	Modifiers Right, Mi	s ddie Age Onset, No	n-Progressive, N	Aoderate, Di	stal			
Medical Review - Part	icipant										
Event Date Reviewer Review Outcome					Awa	iting medical rea	view				
Commente regarding	outcome of medical	roview			Awa	any medical fe					
Specific Diseaso(a)	outcome of medical	ICHICW			Eam	ilial carebral om	المععمد الدر	00000			
Comments regarding	specific rare disease				Tain			sease			
Medical Review - Fam	ily										
Reviewer											
Event Date											
Review Outcome								No sta	te assigned		
Outcome Commente									*		



5.3.2.2 Details

The details tab includes identification and contact information for the participant, eligibility and diagnosis information, and consent/withdrawal information.

Mouse, Micky DOB: 12/07/20 NHS: 222222222 (Proband, Family Id: 656564) Family Medical Review: No state assigned Participant Medical Review: Awaiting medical review		Summary	Details	Genetic Tests	Observations	Family	HPO			
Participant Information			Eligibility							
Family Id	656564	Eligibility State	ement Version			Unki	nown			
Participant Id	100110033	Eligible					Yes			
Forenames	Micky									
Surname	Mouse									
Date of Birth	12/07/2016	Dere Diesere Dieseren								
NHS Number	222222222	Nure Disease D	agnoses							
CHI Number		Specific Disea	se			Age	of Onset			
Person Stated Gender	Female	Eamilial cereb	ral email vesse	disease		5				
Person Phenotypic Sex	Female	i unital cereb	iai small vesse	a also dec		5				
Person Karyotypic Sex										
Ethnicity	Asian or Asian British: Indian							_		
Surname at Birth		Other Diagnose	es							
Genomic Medicine Centre	Fast of England									

5.3.2.3 Genetic Tests

If any data on Genetic Test have been provided, this will be displayed on the Genetic Tests tab.

5.3.2.4 Observations

The Observations tab will display any General Observation data that the NHS GMC has submitted, such as height and weight.

Mouse, Micky DOB: 12/07/2016 NHS: 222222222 (Proband, Family Id: 656564) Family Medical Review: No state assigned Participant Medical Review: Awaiting medical review			Summary	Details	Genetic Tests	Observations	Family	HPO
General Observations								
Measurement	Value	Date			Туре			
Height	5.40 m	18/08/2016						
Weight	76.00 kg	15/08/2016			Patient Reported			
Head Circumference	50.00 cm	08/08/2016			Measured			

5.3.2.5 Family

The Family tab currently displays a summary of the family members recruited, their disease status and medical review status. Each family member's participant ID and name contains a hyperlink that will take you to that participant's record.

From late January 2017, this view will also contain an image of the current pedigree for the family and details of all of the uploaded pedigree files. Once released for NHS GMC use, the Pedigree Editor will be accessible through a link here to allow pedigrees to be created and edited.

5.3.2.6 HPO

Any HPO terms that have been submitted as being 'present', 'absent' or of 'unknown' status will be available in the HPO tab, including modifiers.

For Distribution to NHS GMCs



Mouse, Micky DOB: 12/07/2016 NHS: 22222222 (Proband, Family Id: 656564) Family Medical Review: No state assigned Participant Medical Review: Awaiting medical review			Summary	Details	Genetic Tests	Observations	Family	HPO
Phenotype Statement								
HP0 Term	Present	Modifiers						
Migraine with aura	Yes	Right, Middle Age	Onset, Non-Pr	ogressive, N	loderate, Distal			
Unilateral deafness	Yes							
Reduced consciousness/confusion	Yes							
Anxiety	Yes							
Diabetes mellitus	Yes							
Transient ischemic attack	Yes							
Subcortical white matter calcifications	Yes	Right, Neonatal Or	nset, Progressi	ive, Borderli	ne, Localized			
Seizures	No							
Generalized tonic seizures	No							

6 If you need more information

If you are having issues or need more information on the LabKey views, please contact Genomics England's contact desk by telephone on 0300 3 035 035 or at ssd.genomics@hscic.gov.uk