

Measure Number	Theme	Measure	Description & Prominence	Name of KPI	Numerator	Denominator	Period Type	Frequency	Data Source Numerator	Data Source Denominator	Data presentation	Target	Interpretation Guidance	Construction	Data Quality Concerns	Error Measurement	Notes_1	Notes_2	Notes_3
6190a	Domain 2: Enhancing quality of life for people with long term conditions		Pick up rate for genetic testing	Proportion of tests that return a positive result for affected patients who have the test to determine a diagnosis and are seen in clinical genetics	Number of tests that return a positive result ordered for symptomatic patients who have the test to determine a diagnosis and are seen in clinical genetics (exclude Fragile X and array CGH)	Number of tests ordered for asymptomatic patients who have the test to determine a diagnosis for patients seen in clinical genetics (exclude Fragile X and array CGH)	Quarterly	Quarterly	Hospital clinical records	Trends to be monitored		Neutral	Neutral	Numerator / Denominator x 100			We will need to define the exclusions with the professional bodies.	Initially only exclusion is Fragile X testing and iCGH	2 panel test counts as one test
6190b	Domain 3: Helping people to recover from episodes of ill health or following injury		Multi Disciplinary Clinics (MDC) with patients in attendance - clinical genetics clinics	Proportion of clinical genetics clinics that are part of a MDC (not MDT)	Number of clinical genetics clinics that are part of a MDC (not MDT)	Total number of genetic clinics	Quarterly	Quarterly	Hospital activity data			Neutral	Neutral	Numerator / denominator x 100			It is good practice to have MDC for some conditions that affect multiple body systems where a patient otherwise would need to have appointments to see different specialist clinicians. Agree that we need to establish baseline to determine a measurement range that would indicate that services are performing well against this indicator.	Only include clinics led, organised and commissioned by the commissioners of clinical genetics (do not include clinics organised by other specialties but attended by staff from clinical genetics). This will include NSCAG clinics.	
6190c	Domain 3: Helping people to recover from episodes of ill health or following injury		Multi Disciplinary Clinics (MDC) with patients in attendance - where clinics has been organised by other specialties but attended by staff from Clinical Genetics	Rate of attendees by clinical genetics to clinics organised by other specialties	Number of clinics organised by other specialties but attended by staff from clinical genetics	Number of WTE clinical geneticists and genetic counsellors (excluding trainees)	Quarterly	Quarterly	Hospital activity data			Neutral	Neutral	Numerator / denominator x 100			Include clinics organised by other specialties but attended by staff from clinical genetics.		
6190d	Domain 3: Helping people to recover from episodes of ill health or following injury		Clinical audits	Proportion of clinical audits completed and action plans put in place (the number and type of audits need to be agreed)	Number of clinical audits completed and action plans put in place (from the agreed list of audits)	Number of clinical audits that the clinical genetics department was expected to participate in	Annual (FY)	Annual (FY)	Dependent on specific audits agreed			Higher is better	Higher is better	Numerator / Denominator x 100			The number and type of clinical audits that services are expected to participate in will need to be agreed with the GGS/Lead Clinicians on an annual basis to establish how many audits they are expected to participate in.	For 2013/14 - Beckwith Wiedemann syndrome audit	
6190e	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Urgent Prenatal Rapid aneuploidy QF-PCR/FSH tests, Urgent Postnatal Blood Rapid aneuploidy tests and Urgent Haematology/Leukaemia Rapid PCR/FSH tests completed within 3 working days	Number in denominator completed within 3 working days	Number of Urgent Prenatal Rapid aneuploidy QF-PCR/FSH tests, Urgent Postnatal Blood Rapid aneuploidy tests and Urgent Haematology/Leukaemia Rapid PCR/FSH tests	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Include all tests in the lab, not just those which are requested by clinical genetics.		
6190f	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Urgent Postnatal Blood Karyotype result tests completed within 10 calendar days	Number in denominator completed within 10 calendar days	Number of Urgent Postnatal Blood Karyotype result tests	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Include all tests in the lab, not just those which are requested by clinical genetics.		
6190g	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Urgent Prenatal Karyotype result tests completed within 14 calendar days	Number in denominator completed within 14 calendar days	Number of Urgent Prenatal Karyotype result tests and Urgent Haematology/Leukaemia Karyotype result tests	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Include all tests in the lab, not just those which are requested by clinical genetics.		
6190h	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Routine Haematology/Leukaemia tests completed within 21 calendar days	Number in denominator completed within 21 calendar days	Number of Routine Haematology/Leukaemia tests	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Include all tests in the lab, not just those which are requested by clinical genetics.		
6190i	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Routine Postnatal Tests and Routine Chromosomal microarray and/or PCR/FSH tests for proband or parental samples requested after detection of an imbalance in proband completed within 28 calendar days	Number in denominator completed within 28 calendar days	Number of Routine Postnatal Tests and Routine Chromosomal microarray and/or PCR/FSH tests for proband or parental samples requested after detection of an imbalance in proband	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Include all tests in the lab, not just those which are requested by clinical genetics.		
6190j	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Routine Chromosomal microarray tests for proband and parents referred together completed within 56 calendar days	Number in denominator completed within 56 calendar days	Number of Routine Chromosomal microarray tests for proband and parents referred together	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Include all tests in the lab, not just those which are requested by clinical genetics.		
6190k	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of PCR based tests where the result is needed urgently for prenatal diagnosis completed within 3 working days	Number in denominator completed within 3 working days	Number of PCR based tests where the result is needed urgently for prenatal diagnosis	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Activation date is the date on which the sample (or all the required samples) and all information pertaining to the request is received by the testing laboratory. Reporting date is the date on which the result is first issued, by telephone, fax, e-mail or written report. The reporting time is the difference between the two dates measured in working days.	Include all tests in the lab, not just those which are requested by clinical genetics.	
6190l	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Southern blot tests where the result is needed urgently for prenatal diagnosis, PCR based tests where the familial mutation is known, specific mutation tests, or gene tracking by microsatellite analysis completed within 2 weeks	Number of tests in denominator completed within 2 weeks (10 working days)	Number of Southern blot tests where the result is needed urgently for prenatal diagnosis, PCR based tests where the familial mutation is known, specific mutation tests, or gene tracking by microsatellite analysis	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			The 3 day/2 week reporting times for urgent tests assumes a minimum period of notification (urgent 5 working days, this could be included in a service specification). In addition that the familial mutation is known and/or informativeness of markers is established.	Include all tests in the lab, not just those which are requested by clinical genetics.	
6190m	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Non-urgent PCR based tests where the familial mutation is known, specific mutation tests, or gene tracking by microsatellite analysis completed within 4 weeks	Number of tests in denominator completed within 4 weeks (20 working days)	Number of Non-urgent PCR based tests where the familial mutation is known, specific mutation tests, or gene tracking by microsatellite analysis	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Multiple PCR tests to detect known mutations (eg CFTR ARMS PCR or QIA) are included within "specific mutation tests". A separate PCR test (eg. CFTR agglutiny test for a non-p.Phe508del mutation detected by ARMS PCR) would have an additional 2 week reporting time. If samples are pre-screened for p.Phe508del prior to a multiple PCR test, a single 2 (or 4) week reporting time applies.	Include all tests in the lab, not just those which are requested by clinical genetics.	
6190n	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of Mutation screening or tests that require Southern blot analysis completed within 8 weeks	Number of tests in denominator completed within 8 weeks (40 working days)	Number of Mutation screening or tests that require Southern blot analysis	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			A normal Fragile X result would be reported within 2 (or 4) weeks (specific mutation tests), but if Southern blotting was required to confirm an expansion mutation or a homozygous normal result in a female then an 8 week reporting time would apply for the entire test. This also applies to myotonic dystrophy and Huntington disease.	Include all tests in the lab, not just those which are requested by clinical genetics.	
6190o	Domain 3: Helping people to recover from episodes of ill health or following injury		Laboratory reporting times	Proportion of next generation sequencing panels of >10 genes completed within 16 weeks	Number of tests in denominator completed within 16 weeks (80 working days)	Number of next generation sequencing panels of >10 genes	Quarterly	Quarterly	Laboratory reports			Higher is better	Higher is better	Numerator / Denominator x 100			Temporary category to account for longer reporting times during implementation of new technology	Include all tests in the lab, not just those which are requested by clinical genetics.	
6190p	Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm		Educational sessions provided by clinical genetics to other specialities	Rate of educational sessions provided by clinical genetics to other specialities	Number of educational sessions provided by clinical genetics to other specialities	Number of WTE clinical geneticists and genetic counsellors (excluding trainees)	Quarterly	Quarterly	Hospital records			Higher is better	Higher is better	Numerator / Denominator x 100			There is a need to assess average number of educational sessions in time period that would be expected as good practice in order to set a range for interpretation guidance.	An educational session is a formal post graduate education session lasting an hour (excludes undergraduate teaching)	
6190q	Domain 4: Ensuring that people have a positive experience of care		Poor patient experience	Rate of written complaints about the genetics department	Number of written complaints about the genetics department received during period	Total number of patient contacts (appointments including telephone contacts that replace a face-to-face appointment) in period	Quarterly	Quarterly	Hospital records			Lower is better	Lower is better	Numerator / Denominator x 100					
6190r	Domain 4: Ensuring that people have a positive experience of care		Good patient experience	Rate of letters/emails from patients, carers or non-genetics consultants registering thanks to the genetics department	Number of letters/emails from patients, carers or non-genetics consultants registering thanks to the genetics department received during period	Total number of patient contacts (appointments including telephone contacts that replace a face-to-face appointment) in period	Quarterly	Quarterly	Hospital records			Higher is better	Higher is better	Numerator / Denominator x 100					
6190s	Domain 4: Ensuring that people have a positive experience of care		Patients waiting excessively for pre-natal (PN) genetic test results where the patient is seen in the clinical genetics department	Proportion of patients receiving test result within 5 working days after the clinic receives the laboratory report for PN genetic test results	Of all patients seen in clinical genetics who had prenatal diagnosis during the period, the number who received their prenatal genetic test result within 5 working days of the clinic receiving the laboratory report.	Number of patients seen in clinical genetics who had prenatal diagnosis during period	Quarterly	Quarterly	Hospital clinical records			Higher is better	Higher is better	Numerator / Denominator x 100			In clinical genetics (unless patient choice has opted to receive results in the post) in most cases, the results should be communicated back to the family members face to face and more likely for PN test results this is done over the phone by a consultant geneticist or genetic counsellor. This is because unlike other biochemical and pathology based tests, genetic test results have lots of implications either way for family members and this all needs to be explained. Good practice would advocate seeing or consultant calling patients to give them results. We suggest that this could be measured by reviewing patient appointments attended or phone calls made to explain/receive genetic test results. There would need to be in place the ability to code clinical records for appointments attended or phone calls made to review genetic test results.		
6190t	Domain 4: Ensuring that people have a positive experience of care		Do Not Attend (DNA) as defined in the Data Dictionary (http://www.datadictionary.nhs.uk/data_dictionary/attributes/ur/attended_or_did_not_attend_de.asp?shownav=1)	Proportion of appointments that are not attended	Number of DNAs within period	Total number of appointments booked during period within clinical genetics (311 treatment function). This can be taken as the total number recorded on PAS including DNAs	Quarterly	Quarterly	Hospital clinical records			Lower is better	Lower is better	Numerator / Denominator x 100					
6190u	Domain 4: Ensuring that people have a positive experience of care		Patients counselled without a referral	Rate of patients counselled without a referral	Number of patients counselled without a referral during period	Total number of patients attending appointments during period	Quarterly	Quarterly	Hospital clinical records			Lower is better	Lower is better	Numerator / Denominator x 100				Trends need to be monitored	
6190v	Domain 4: Ensuring that people have a positive experience of care		Patients co-counselled by a genetic counsellor and doctor during period	Rate of patients co-counselled by a genetic counsellor and doctor during period	The number of clinical appointments where a genetic counsellor co-counsels with a doctor (excluding MDC counselling activity)	Total number of clinical genetics appointments of all types during period (appointments including telephone contacts that replace a face-to-face appointment)	Quarterly	Quarterly	Hospital clinical records			TBC	TBC	Numerator / Denominator x 100			It is recognised that hospital IT systems may not record counsellor non-consultant appointments therefore this measure is intended to promote better recording of these appointments.	Ideally this would be an average of rates measured per patient but it's recognised that at present it is unlikely that trusts would be able to measure this.	
6190w	Domain 4: Ensuring that people have a positive experience of care		Patients counselled independently by a genetic counsellor	Rate of appointments counselled independently by a genetic counsellor during period	The number of independent genetic counsellor clinic appointments (including planned pre-clinic appointments preparing for a doctor's appointment)	Total number of clinical genetics appointments of all types during period (appointments including telephone contacts that replace a face-to-face appointment)	Quarterly	Quarterly	Hospital clinical records			TBC	TBC	Numerator / Denominator x 100			It is recognised that hospital IT systems may not record counsellor non-consultant appointments therefore this measure is intended to promote better recording of these appointments.	Ideally this would be an average of rates measured per patient but it's recognised that at present it is unlikely that trusts would be able to measure this.	
6190x	Domain 4: Ensuring that people have a positive experience of care		Patient appointments held in preparation for a doctor's appointment	Rate of genetic counsellor clinic appointments held in preparation for a doctor's appointment	The number of genetic counsellor clinic appointments held in preparation for a subsequent doctor's appointment	Total number of clinical genetics appointments of all types during period (appointments including telephone contacts that replace a face-to-face appointment)	Quarterly	Quarterly	Hospital clinical records			TBC	TBC	Numerator / Denominator x 100			It is recognised that hospital IT systems may not record counsellor non-consultant appointments therefore this measure is intended to promote better recording of these appointments.	Ideally this would be an average of rates measured per patient but it's recognised that at present it is unlikely that trusts would be able to measure this.	
6190y	Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm		Serious untoward incidents regarding patient care	Number of serious Untoward Incidents involving patient care	Number of serious Untoward Incidents involving patient care	N/A	Quarterly	Quarterly	SUI reporting system									Suggest we review against patient numbers seen / number of lab reports - depending on the incident.	
6190z	Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm		Serious untoward incidents regarding lab tests	Rate of serious Untoward Incidents involving lab tests	Number of serious Untoward Incidents involving lab tests	Number of lab tests during period	Quarterly	Quarterly	SUI reporting system									Suggest we review against patient numbers seen / number of lab reports - depending on the incident.	
6191a	Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm		External Quality Assurance	Episodes of poor performance in EQA schemes the laboratory participates in	Episodes of poor performance notified to the laboratory by UKNEQAS, EMQN or another EQA service provider	Number of EQA schemes participated in	Annual (FY)	Annual (FY)	EQA									It is mandatory that all labs participate in at least one EQA scheme. The EQA schemes are test specific by condition and therefore we would expect the specific schemes to vary by lab as different labs across the country provide different tests for different conditions.	
6191b	Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm		Activity audits (laboratory)	Proportion of audits participated in by the genetics laboratory (the number and type of audits need to be agreed)	Number of audits (from the agreed list of audits) that the genetics laboratory participates in	Number of audits that the genetics laboratories should be participating in	Annual (FY)	Annual (FY)	Dependent on specific audits agreed									As per Clinical Molecular Genetics Society/Association for Clinical Cytogenetics and URG/IN audits requested	to include workforce audit
6191c	Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm		Non-Adherence to URG/IN Testing Criteria (laboratory) as per UK GTN website.	Proportion of test requests from clinical genetics that did not comply to URG/IN Testing Criteria where TC apply.	Number of tests requested by clinical genetics from specified list that did not comply with URG/IN Testing Criteria	Number of tests requested from specified list	Quarterly	Quarterly	clinical records			Lower is better	Lower is better				All URG/IN Testing Criteria are available from the URG/IN website. The 3 tests for which adherence to URG/IN testing criteria are: 1) Silver Russell Syndrome, 2) Kabuki syndrome, 3) MEN2	Review after Q1 submission	