Band	GenU Score	General examples	Specific examples
A	1	▪ All DNA extractions to include ○ extract > test locally ○ extract > DNA banking ▪ All RNA extraction	
		▪ Sample receipt, booking in, and processing of all sample types. Covers: ○ Sample preparation, setting up of culture(s) and processing of sample to provide a cell suspension for cytogenetic analyses, processing of PET samples for FISH, DNA extraction	▪ Samples processed for both Cytogenetic and Molecular Genetic Studies are considered as separate. ▪ Interpretation/undertaking segregation of results from another laboratory. ▪ Re-issue of report for sample previously tested (repeat request for same test). ▪ Proband samples processed as a positive control for other family members
A	1	▪ DNA/cell culture sample export	▪ An additional A is counted for any exports only of DNA or cell cultures
		▪ Cell freezing/storage – long term liquid nitrogen storage	▪ Freezing/storage – this is a one-off charge for potentially long-term storage
B	2	▪ Single amplicon (genotyping or sequencing)	▪ FraX PCR ▪ Haemochromatosis ▪ Factor V ▪ Jak2 ▪ HD (diagnostic and predictive tests) ▪ Other triplet disorders where a single PCR is required (eg SBMA) ▪ Y deletions ▪ FLT3 ▪ NPM1
		▪ Embryo preparation of PGD analysis ▪ FISH only testing for constitutional or acquired samples with a single FISH hybridisation as the only test ▪ Follow up FISH testing for all sample types with a single FISH hybridisation as the only test	▪ Only includes preparation for testing. ▪ A single hybridisation can include two informative probes e.g. ATM/TP53 combination probe ▪ Follow up of microarray findings using a single FISH probe
C	4	▪ **Genotyping 2-4 amplicons** ▪ **Sequencing: Very small gene with 2-4 exons/amplicons** ▪ **Sequencing: Predictive tests, confirmations and carrier tests**	▪ **CF-ARMS, CF-OLA, CF-HT** ▪ **AS/PWS** ▪ **FraX if Southern blotted** ▪ **DM, Friedreich's ataxia** ▪ **RT PCR BCR/ABL1**

Band	GenU Score	General examples	Specific examples
		▪ **MS-PCR** ▪ **MLPA with no other test (including DMD)** ▪ **Prenatal tests to include the MCC** ▪ **1 lane on Southern** ▪ **Triplet disorders that require two PCRs (allele specific and TP-PCR)** ▪ **Identity/paternity tests**	
		▪ **Direct CVS analysis** ▪ **Rapid aneuploidy testing for +13, +18 and +21, X/Y (QF-PCR FISH)** ▪ **Follow up testing all sample types by karyotype, FISH, MLPA, targeted array and FISH (if 2-4 hybridisations)** ▪ **Kit based MLPA** ▪ **FISH only testing for constitutional or acquired samples with 2-4 FISH hybridisations**	▪ **Includes slide making/banding and FISH preparation for all probe types** ▪ **Parental follow up samples: any method NB. proband sample acts as a positive control** ▪ **E.g. CLL FISH panel** ▪ **Haematology monitoring samples included as follow up**
D	**7**	**Postnatal constitutional whole genome screen by karyotyping or array analysis without a rapid aneuploidy pre-screen includes. This includes any additional conventional staining or FISH tests requested/required including confirmation of array findings, if required, for the proband**	▪ **Includes slide making and G-banding and processing steps post DNA extraction.** ▪ **Covers blood and solid tissue referrals** ▪ **G-band analysis appropriate to referral reason and if necessary other conventional staining (eg C band, NOR) to aid interpretation.**
E	**10**	▪ 5-19 amplicons (MLPA to count as 2 amplicons when part of full screen) ▪ All linkage tests including UPD	▪ Sequencing MECP2 by Sanger or NGS ▪ DMD linkage ▪ AS/PWS if linked markers used
		▪ Prenatal constitutional whole genome screen by karyotyping or array analysis without a rapid aneuploidy pre-screen includes any additional conventional staining or FISH tests requested/required including array confirmation for the proband ▪ Postnatal constitutional whole genome screen by karyotyping or array analysis including a rapid	▪ Includes SCE prep and analysis for FA, and scanning for chromosome 7 and 14 rearrangements for AT. ▪ Transformed/relapse category includes those where a full analysis on the sample is required. ▪ Postnatal covers blood and solid tissue referrals ▪ Includes long term culture, slide making and G- banding and processing steps post DNA extraction

Band	GenU Score	General examples	Specific examples
		aneuploidy pre-screen test. This includes any additional conventional staining or FISH tests requested/required. Includes confirmation of array findings, if required, for the proband ▪ Chromosome breakage studies, eg FA, or AT ▪ Diagnostic, transformed or relapsed Haematological (marrow, blood, lymph node, effusion) or tumour whole genome screen by karyotyping or array analysis includes any additional conventional staining or FISH tests requested/required. ▪ Haematological FISH only testing 5-19 hybridisations	▪ Rapid aneuploidy testing for +13, +18 and +21, X/Y (QF-PCR FISH)
F	**15**	**20-49 amplicons (MLPA to count as 2 amplicons when part of full screen)**	▪ Sequencing factor 8 by Sanger or NGS
		Prenatal constitutional whole genome screen by karyotyping or array analysis including a rapid aneuploidy pre-screen test. This includes any additional conventional staining or FISH tests requested/required. Includes confirmation of array findings, if required.	▪ Includes long term culture, slide making and G- banding and processing steps post DNA extraction ▪ Rapid aneuploidy testing for +13, +18 and +21, X/Y (QF-PCR FISH)
G	**25**	**50-100 amplicons (MLPA to count as 2 amplicons when part of full screen)**	▪ Sequencing FBN1 ▪ Sequencing BRCA1+BRCA2
		1-50 genes analysed by NGS	▪ Sequencing 12 genes for Noonan Spectrum Disorders
H	**40**	**Over 100 amplicons**	▪ Sequencing a group of genes in parallel that contribute to a single report
		51-500 genes analysed by NGS	▪ Sequencing 105 genes for Retinal Degeneration

Note internal transport of DNA/cell culture samples between co-located laboratories should not be counted as exports
Shared activity within co-located laboratories only attracts the GenU (single band) for the shared activity