**Appendix** **A: Turnaround Times**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Clinical Urgency** | **Category (mapping to test directory)** | **Sub-categories** | **Calendar Days** | **Examples** |
| **URGENT** | **Ultra Rapid** | N/A | **3 days** | QF-PCR for rapid trisomy detection |
|  |  |   |  | Urgent haemato-oncology FISH/RT-PCR |
|  |  |   |  | PCR-based tests where the result is needed urgently for prenatal diagnosis |
| **URGENT** | **Ultra rapid** | NA | **7 days** | NIPT |
| **URGENT**  | **Rapid** | Rapid | **14 days** | Microarray for prenatal / urgent postnatal (e.g. neonatal referrals) |
|  |  |   | Urgent Haemato-oncology karyotyping |
|  |  |   | Mutation specific molecular pathology tests |
|  |  |   | Southern blot tests where the result is needed urgently for prenatal diagnosis |
|  |  |   | PCR-based tests for predictive testing and confirmation of neonatal results |
|  |  | Complex rapid | **21 days** | Urgent panels and exomes for relevant indicationsNIPD |
|  |  |
| **NON-URGENT** | **Standard** | Somatic Cancer | **21 days** | Standard HO karyotyping (e.g. MDS) |
|  |  |   |  | NGS panels for HO referrals |
|  |  |   |  | NGS panels for molecular pathology referrals |
|  |  | Rare Disease | **42 days (6 weeks)** | Standard paediatric microarray Standard single gene and **small gene panel (<10 gene)** sequencingKnown familial mutation testing Standard STR based analysis Postnatal karyotyping (e.g. fertility or familial microarray follow-up) |
| **NON-URGENT** | **Complex Standard** | Rare Disease | **84 days (12 weeks)** | **Large gene-panels (>10 genes)** or WES for standard referral indications |
|  |  |   | **Part a) 42 days (6 weeks)** | **Expectation** for delivery of centralised WGS (from DNA sample receipt to return of vcf and/or filtered variants to GLH) |
|  |  |   | **Part b) 42 days (6 weeks)** | Validation/reporting of centralised WGS results after receipt at GLH  |