**Guide to ordering Whole Genome Sequencing (WGS)**

**Before ordering:**

* Check patient is eligible for WGS, select clinical indication and check family structure using
  + National Genomic Test Directory (contains full directory of genomic tests available) - <https://www.england.nhs.uk/publication/national-genomic-test-directories/>
  + Test Selection Tool (WGS indications only) - <https://test-selection-private.genomics.nhs.uk/test-selection/>
* If using stored DNA please email [gos-tr.wgsnorththamesglh@nhs.net](mailto:gos-tr.wgsnorththamesglh@nhs.net) to check that DNA is of appropriate quality and quantity. In email, please state the following:
  1. Test type (ie. WGS)
  2. Clinical Indication (see Test Directory or Test Selection Tool)
  3. Where parental samples are coming from (ie. fresh or stored). Not applicable for cancer.

**NB: Patients that have had WGS through the 100,000 Genomes Project) are not eligible for WGS**

**To order:**

Samples cannot be processed until the lab has all of the following with forms correctly and fully completed:

|  |  |
| --- | --- |
| **Rare Diseases** | **Cancer** |
| Record of Discussion Form (one for each family member) | Record of Discussion Form |
| Test Order Form (Rare Diseases) | Test Order Form (Cancer) |
| Germline Sample | Germline Sample |
|  | Tumour Sample |

* Forms can be found on the GLH website - <https://www.norththamesglh.nhs.uk/healthcare-professionals/ordering-whole-genome-sequencing/>
* If you have a nominated consultee consenting to the National Genomic Research Library on behalf of a patient over 16 who lacks sufficient capacity, you will need to complete the ‘Consultee Declaration’ form in addition to the ‘Record of Discussion’
* **Please note, many WGS cases will need to be discussed at an MDT. You must be prepared to attend an MDT if you wish to order WGS for your patient**

**Further resources:**

Resources designed to help healthcare professionals bring the benefits of genomic medicine to patients can be found through HEE - <https://www.genomicseducation.hee.nhs.uk/supporting-the-nhs-genomic-medicine-service/>

If you have any WGS related questions please contact the GLH through the designated WGS email address [gos-tr.wgsnorththamesglh@nhs.net](mailto:gos-tr.wgsnorththamesglh@nhs.net)