SOUTHAMPTON Children's Hospital

NHS Wessex Cancer Alliance

Whole Genome Sequencing: Paediatric neuro-oncology pathway

Eligibility

- Age <18y and known to paediatric consultant
- CNS malignancy (known/suspected)
- Biopsy or surgical resection (planned/undertaken)

Colour key

- Piam Brown staff
- Pathology labs
- WGS service

Patient identified at Neuro-Oncology MDT

CCLG patient information for paediatric oncology WGS to be given to parents.

WGS_test_factsheet_WEB.pdf (cclg.org.uk)

Record of Discussion (ROD) to be completed by trained clinician or clinical nurse specialist.

1. Download Form RoD_form_WGS.pdf (buckup-cuh-production.s3.amazonaws.com)
2. Upload ROD to edocs (entitled – WGS Record of Discussion)
3. Email ROD to uhs.wgswessexgenomics@nhs.net

eQuest:

1. **Tumour** Request ➜ eQuest: 'WGS Solid Onc Tumour'
2. **Germline** Request ➜ eQuest: 'WGS Solid Onc Germline'

Germline sample to be delivered to D level main pathology reception.

EDTA Sample Minimal Volumes:

1ml Infant

3 ml Paediatric Patient

3. GMS Test Order Form (TOF) ➜ nhs-genomic-medicine-service-test-order-form-cancer.pdf (england.nhs.uk)
4. email to uhs.wessexgenomics@nhs.net

Record process on MS Teams shared patient list and patient summary front sheet

Tumour sample: Fresh sample (must NOT be formalin fixed):

08:30-17:00: Deliver sample to - E level specimen reception

Out of hours: Deliver to D level specimen reception you MUST bleep on-call biomedical scientist via UHS switchboard to enable storage of fresh tissue.

Samples processed and sent to Birmingham for analysis with RoD

Birmingham lab – DNA extraction, immune-sequencing, etc

Results discussed at genomic tumour advisory board

Finalised report:

1. Copy sent to consultant
2. Lab report issued onto CHARTS
3. APEX database updated

Review report, discussion with patient / family etc (and update MS Teams)

Version 1 : June 2022

CS54397 NHS Creative 06/2022