WGS Pathway: Sarcoma

NHS South West
NHS Genomic Laboratory Hub

Patient with clinical suspicion Sarcoma

Bone Sarcomas excluded

Clinical team collects tissue sample for somatic WGS at diagnostic biopsy or resection surgery

- 1) FFPE for histopath (standard tests)
- 2) Additional fresh tissue sample for WGS (min. 15 x 2 mm in plain universal container with saline-soaked gauze)

Transport to cell path lab within 2h or can store in fridge up to 24h

Samples sent to Cell Path with SoC request form

Cell Path confirms diagnosis and issues report

Clinical team discusses WGS with patient

Materials provided by NHSE

These can be given at the initial diagnostic appointment

- *Patient Information for Cancer Patient Information for Cancer - Easy Read*

GMS Test Order Form

surgeon/oncologist WGS Cancer TOF

Clinician/oncologist/CNS WGS Cancer RoD

Scan each TOF and RoD as separate documents and email nbn-tr.bglexportscientist@nhs.net

Copy of RoD for patient File original RoD in notes

SW GLH record test order information and record RoD In NGIS To start WGS export

Record of Discussion

- Confirms a discussion about the test has taken place
- Confirms if an offer for research access (NGRL) has taken place
- Records the patients NGRL decision

Surgeon/oncologist requests germline sample

Request using a

- *Bristol Clinical Genetics Request Form GMS Test Order Form v1.3 or correct ERS*

Nurse/Phleb takes blood sample (germline)

2x4ml EDTA

Blood Science Lab arrange 'sendaway' to Southmead

SW GLH extract and store DNA from germline sample

SW GLH contacts cell path to send/collect FF somatic sample for extraction and to complete NGIS request

Transport frozen with dry ice or Intelsius Orca M Box required

WGS analysis completed

- Results returned to clinical team
- Discussion available at Genomics Tumour Advisory Board if required

Email nbn-tr.bglexportscientist@nhs.net

WGS = whole genome sequencing
TOF = test order form
RoD = record of discussion
SWGLH = South West Genomics Laboratory Hub
NGIS = National Genomics Informatics System
NGRL= National Genomic Research Library

For more information-
https://www.nbt.nhs.uk/south-west-genomic-laboratory-hub/swglh-sample-test-information