

The North Thames GLH Rare and Inherited Genomic Laboratory incorporates the GOSH Molecular Genetic and Cytogenetics services and the UCLH Neurogenetics service. The GOSH laboratory performs all sample handling, DNA extraction and laboratory tests; analysis and reporting is subsequently carried out by each constituent service depending on the test.

Discussion with patients and family about genomic testing

- > An appropriate discussion of the genomic test and possible implications should take place according to the Consent and Confidentiality in Genomic Medicine guidelines (available on RCPATH website)
- > The patient should be advised that the sample may be used anonymously for quality assurance, research and training purposes, please advise of any restrictions.

Instructions

The sample tube and referral card must have three matching identifiers to be accepted. Patient's sex at birth must be indicated on the request form.

- **Sample MUST be labelled with:**

- ☐ Patient's full name (surname and given name)
- ☐ Date of birth and NHS number
- ☐ Referring Hospital Number
- ☐ The date and time sample was taken

- **Blood Samples: Mix samples thoroughly for 2 minutes to prevent clotting**

- ◇ 4mls venous blood in plastic EDTA (pink or lavender) bottles (>1ml from neonates)
- ◇ 2mls venous blood in plastic Lithium Heparin (orange or green) bottles (1-2ml from neonates)

- **Lithium Heparin blood samples must be received in lab within 24 hours (refrigerate overnight at 4°C if necessary).**

NOTE: The following will lead to REJECTION and may require repeat sampling:

- Samples in glass bottles
- UNLABELLED Samples
- MISLABELLED Samples

Please note that blood samples taken after HSCT (bone marrow transplant) or after recent blood transfusion are not suitable for genetic testing.

Use alternative Test Order Form for:

- 1) Whole genome sequencing (WGS) from any sample.
- 2) Free fetal (NIPD) analysis (contact lab in advance)
- 3) RNA Analysis (contact lab in advance)
- 4) Prenatal testing (Chorionic Villus, Amniotic Fluid)

ANY OTHER SAMPLE: e.g. Buccal swab, Muscle, Urine – TELEPHONE FOR ADVICE

Shipping Requirements

Samples coming from outside Great Ormond Street Hospital / Institute of Child Health must be packaged in accordance with **UN PACKING REQUIREMENT PI 650** and clearly labelled '**diagnostic specimen UN3373**'.

Sample Dispatch/ Storage

Samples can be shipped at room temperature. Samples may be stored at room temperature if taken on the day they are to be sent or refrigerated overnight.

Address to

North Thames GLH, Rare & Inherited Disease Genomic Laboratory
Specimen Reception, Level 5 Barclay House, 37 Queen Square,
London WC1N 3BH

Opening hours: Monday to Friday 9.00am to 5.30pm (please ensure samples arrive by 5pm)

Tel (all enquiries): 020 7829 8870 / 020 7762 6888

Email: gos-tr.norththamesgenomics@nhs.net / ucl-tr.NHNNgenetics@nhs.net

For more information

North Thames GLH: <https://norththamesgenomics.nhs.uk>

UCLH Neurogenetics: <https://www.uclh.nhs.uk/our-services/find-service/neurology-and-neurosurgery/neurogenetics/neurogenetics-laboratory>