

This form is **ONLY** for patients who have been referred to the National aHUS Service

Sample Collection:

Date		Time	
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Clinical team: Please do not send samples, until the patient has been discussed with the aHUS on call Consultant via the Newcastle upon Tyne Hospital switchboard on 0191 233 6161.

Patient information:

Surname		Forename	
Sex		Date of birth (dd/mm/yy)	
Hospital			
NHS number		Ethnic group	

Referring clinician:

Name	
Address	
Postcode	
E-mail address (@nhs.net)	
Telephone number	

Clinical team: Prior to sampling, please inform your lab team to expect these bloods. Please take the samples to your lab within 15 minutes of sampling for processing by the lab team, accompanied by this form. Following discussion with the aHUS on call Consultant please tick box(es) below as required.

	Samples required (* these tubes require further processing by the lab)
New Referral	*1 x 5ml EDTA for EDTA plasma, *2 x 7ml SST for Serum and a further 2 x 5ml EDTA
ADAMSTS 13 activity	*2 x 2.7ml sodium citrate for citrated plasma – this should be sent for all new referrals unless advised otherwise by the aHUS on call Consultant

Laboratory team:

Samples marked with * require processing. Please process as described overleaf. When samples are ready for collection, please email enquiries@1nelogistics.co.uk and atypical.hus@nhs.net and call the aHUS couriers on 0191 691 6666

The email should state

- **Account name: NRCTC – aHUS**
- **Account number : 1NEaHUS**
- **Bio 15 with dry ice required (the couriers will bring this with them)**
- **Contact name, telephone number and full address of the lab the couriers will be collecting from**

Samples will be collected 24- hours a day so please can out- of- hour's collection be facilitated, in order to expedite results

Please can the used blood draw tubes be sent with the aliquots of the samples

Instructions for local labs-

For support with samples please call 0191 282 5098 or 0191 233 6161 (OOH)

Preparation of citrated blood for ADAMTS13 activity

- Centrifuge citrate sample at 2,000g for 15 min as soon as possible.
- Pipette plasma (avoiding buffy coat) into fresh tube for repeat centrifugation at 2,000g for 15 min.
- Pipette plasma into ~4x0.5ml aliquots in screw top 0.5ml tube compatible with -80°C storage.
- Label aliquots 'CITRATED PLASMA' with forename, surname, D.O.B and NHS number.
- Freeze sample (preferably at -80°C) prior to shipping on dry ice.

Preparation of 5ml EDTA blood for EDTA plasma

- Centrifuge EDTA blood sample at 2,000g for 15 min as soon as possible.
- Pipette plasma (avoiding buffy coat) into ~5x0.5ml aliquots in 0.5ml screw top tube compatible with -80°C storage.
- Label all aliquots 'EDTA PLASMA' with forename, surname, D.O.B and NHS number.
- Freeze sample (preferably at -80°C) prior to shipping on dry ice.

Preparation of 2x7ml Serum

- Allow the blood to clot by leaving undisturbed at room temperature for 30 minutes.
- Centrifuge at 2,000 x g for 15 minutes in a refrigerated centrifuge.
- Pipette serum into ~8x 0.5ml aliquots in 0.5ml screw top tubes compatible with -80°C storage.
- Label all aliquots 'SERUM' with forename, surname, D.O.B and NHS number.
- Freeze sample (preferably at -80°C) prior to shipping on dry ice.

1 x 5ml EDTA for CD46 Flow Cytometry analysis

- Label with forename, surname, D.O.B and NHS number.
- Store and ship at ambient temperature - **DO NOT FREEZE**

1 x 5ml EDTA for DNA analysis

- Label with forename, surname, D.O.B and NHS number.
- Store and ship at ambient temperature – **DO NOT FREEZE**

NRCTC will perform the following tests: C3, C4, FH, FI, FB, FB, sC5b-9, CD46 expression, FH autoantibodies, Genetic analysis (All coding exons of CFH, CFI, CD46, C3, CFB. MMACHC, DGKE (including copy number of CFH, CFI, CD46, CFHR1 and CFHR3) and C5 Eculizumab non responder SNPs (p.R885H; p.R885C) ADAMTS13 activity