

Step 1

Document the following clinical information to assist in phenotyping:

- Kidney function
- Blood biochemistry
- Haematological parameters
- Complement studies
- ADAMSTS13 % activity
- Urine analysis
- Kidney biopsy
- Family history of kidney disease, including kidney phenotype

For patients with a positive family history:

If a family member has had genetic testing and a disease-causing variant has been identified:

- Do not proceed to genomic testing
- Refer to Genetic Health Queensland to discuss targeted confirmatory genetic testing.

Consider genomic testing if there are any of the following indications for testing:

- Diagnostic uncertainty
- Guiding Eculizumab therapy
- Genotype-specific management
- Family planning
- Risk clarification for family
- Transplant planning (particularly if donor is a blood relative)

Step 2	
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The following pathway guides genomic testing based on suspected clinical diagnosis. Key clinical features for each diagnosis are listed.

Atypical Haemolytic Uraemic Syndrome

Congenital Thrombotic

C₃ Glomerulopathy

CFHR5-nephropathy

Thrombocytopenic Purpura

(Upshaw-Schulman syndrome)

- Thrombotic microangiopathy/ microangiopathic haemolytic anaemia
- ADAMTS13 % activity normal
- Acute, multisystem, catastrophic, impact on kidneys > neurological
- Often associated with a trigger or complement amplifying event
- Thrombotic microangiopathy/ microangiopathic haemolytic anaemia
- ADAMTS13 % activity low
- Acute, multisystem, impact on neurological > kidney
- Chronic with acute flares
 - Membranoproliferative
 glomerulonephritis phenotype
- Chronic with acute flares
- Can behave in a synpharyngitic manner
- Can have membranoproliferative glomerulonephritis phenotype
- Greek-Cypriot background predominance

Request 'Atypical Haemolytic Uraemic Syndrome_MPGN' panel

Although the same genomic test is requested for these diseases, detailed phenotype information is crucial for analysing and interpreting the genomic test.



v1 Effective: June 2022