

## Investigations arterial ischaemic childhood stroke

( Level 1: to be done in any child; Level 2 and 3: in special indication )

### Imaging

Level 1 testing: MR imaging and MR angiography (including neck!)

Level 2 testing: vascular sonography, conventional angiography

### Cardiac investigations

Level 1 testing: echocardiography and ECG

Level 2 testing: transoesophageal echocardiography

### Laboratory investigations

Haematology:

Level 1 testing: Bloodcount\* including red and white parameter, platelets, ferritin

Level 2 testing: electrophoresis hemoglobine

Infections:

Level 1 testing: Bloodcount\*, CRP, BSR\* and serology for borreliosis

Level 2 testing: further serologies

Coagulopathies:

Level 1 testing, in emergency: Quick/INR, aPTT\*

Level 1 testing, in the course: fibrinogen, factor VIII, homocystein, lipoprotein A, factor V (Leiden) and prothrombin mutations, MTHRF mutation, protein C\*\*, protein S\*\*

Vasculitis screening:

Level 1 testing, during hospitalisation: BSR\*, aPTT\*, ANA, lupus anticoagulans, anticardiolipid-antibodies

Level 2 testing: ANCA, C3, C4, other immunological testing

Metabolic screening:

Level 1 testing, within first days: lactate, ammonium, AA and OA in urine

Level 1 testing, during hospitalization: lipid profile, homocystein

Level 2 testing: alpha – galactosidase transferring electrophoresis, carnitine profile sulphite test in urine

On special indication: drug screening

**Cerebrospinal fluid** (especially in case of focal vasculopathy):

Level 1 testing: opening pressure, cells, glucose, protein, lactate, Borrelioseindex

Level 2 testing: PCR Varicelles, oligoclonal AB, further infectiological investigations

\* tests indicated for more than one indication

\*\* **Cave:** only to perform 6-12 weeks after the acute event