

## PASTA: Paediatric Arteriopathy Steroid Aspirin

### Acute procedure for possible candidates of PASTA up to randomisation

**Bold information will be asked for in the database**

Suspicion of stroke → fast neuroimaging as by local protocol

consider the following sequences: **DWI/ADC; Flair, T2-weighted, TOF, SWI**, neck vessel imaging enhanced TOF or dark blood b

Preferably **3 Tesla** (if in emergency setting 1.5 Tesla, follow-up imaging on the 3 Tesla on the following days).

**Imaging criteria for inclusion** (will be asked for inclusion criteria):

- ✓ Newly acquired neurological deficits.
- ✓ Specific neuroimaging (MRA) features of **unilateral** stenosis or unilateral vessel irregularities within the CNS (not limited to T-junction).
- ✓ No evidence of an underlying arteriopathy of other origin than FCA-I (as MoyaMoya, arterial dissection, small vessel vasculitis).

- Proceed with local protocol for treatment as thrombectomy and/or lyses.
- Continue with local protocol for treatment → start Aspirin daily dose of 5 mg/kg BW as soon as possible after recanalization therapy as by local protocol (max 150 mg/die).
- Heparin possible in the acute phase prior to study start.
- Consider necessity for lumbar puncture prior to antithrombotic treatment.

### Checklist for inclusion/exclusion (see there)

- Possible PASTA candidate:  
Information of parents within 12-24 hours of diagnosis, when child transferred to ICU or ward (do not confront parents with decision in hyperacute situation or just ad initial information of the stroke).  
**Information should reflect our equipoise of treatment with steroids – give advantages and disadvantages of both treatment arms.**
- Give written information to parents.
- **Go back to parents within appropriate time and ask for consent** (steroid start the latest 48h after diagnosis and/or 96h after symptom onset).
- Go for randomisation:  
Randomisation is performed in the study secuTrial database:
  - ⇒ Create a new patient in secuTrial.
  - ⇒ Complete the "Patient informed consent and eligibility" form. Save and close.
  - ⇒ Complete the "Randomisation". Save and close.
  - ⇒ The allocated study arm will be displayed.

**Start treatment with steroids** (if treatment arm) immediately after randomisation

- Continue with additional risk factor evaluation as by local protocol (see also suggestions by PASTA study).

## “Standard of care” Guideline for PASTA patients

- Suggested Dosage: Aspirin 5 mg/kg BW iv or po (max. 150 mg, as appropriate) for 4 weeks).  
Followed by Aspirin 3 mg/kg BW (max. 100 mg) at least till end of study (12 months).  
**Exact dosage of aspirin will be asked in database.**
- **ICU or ward:** decision of treating neuropaediatrician.
- Surveillance/Rehabilitation over first 3 days (suggestions).  
Clinical controls: this is the minimum which should be done, should be adjusted according to clinical problems.  
Rehabilitation: this is the fastest time table, in case of problems steps have to be delayed.  
After each step of mobilisation: check pedNIH immediately afterwards, in case of worsening: go back for one step for another 24 hours.  
day 1: Bed rest, maximum of 40 degree for sitting.  
- Consider meds to avoid tendency of obstipation till full mobilisation.  
  
Check swallowing before start of oral feeds.  
**Full neurological examination as by PSOM.**  
**Every 6 hours: blood pressure, temperature, O2 saturation, ped NIH**  
**Glucose 2x/24h hours**  
day 2: Bedrest, but with sitting in bed.  
Morning/midday/evening: blood pressure, temperature, O2 saturation, ped NIH.  
day 3: Start mobilisation at edge of bed/go to toilet.  
Morning/midday/evening: blood pressure, temperature, O2 saturation, ped NIH.
- Surveillance and rehabilitation for the rest of hospitalisation (length of stay is decision of treating neuropaediatrician).
- First week:  
Clinical controls: blood pressure, temperature, ped NIH twice daily.  
Mobilisation on ward in increasing time amount, no activities which increase blood pressure, heart rate etc.
- Second week and rest of hospitalisation:  
Blood pressure and ped NIH daily.  
Mobilisation according to clinical situation.
- Discharge (also if transfer to rehabilitation unit):  
**Blood pressure, pulse, pedNIH and PSOM.**  
Full neurological examination (as by PSOM).

### Surveillance for children on steroid treatment:

Has to be adjusted to clinical problems.

Supportive treatment with **PPI, Ca/Vit D.**

First 3 days: **Blood pressure 4x/day, BC, glucose and electrolytes day 1 and 3**  
**Bodyweight as soon as mobilisation at bed edge.**

For the period of tapering: **weekly urine glucose, bodyweight, blood pressure** (can be done by family physician or local paediatrician).