

Nurse led Transcranial Doppler (TCD) service (Aimiuwu 2017)

Inputs

Investment

Funding (Setup cost + Running cost)

- Nurse led (£16,653.60)
- vs**
- Consultant led (£18,812.30)

Set up costs

- £12,564.86

Running/ operational costs

- Nurse led: £4,225.60 p.a.
- vs**
- Consultant led: £6,384.30 p.a.

Resources

Staff

- 2 Haemoglobinopathy Nurses on Bands 6 and 7
- Receptionist Band 2
- Psychologist

Travel

- For staff training
- Parents attending clinics

Supplies/equipment

- Ez Dop (mobile scanning machine)

Facilities/ premises

- Medical Physics
- Clinic room
- Sleep study lab
- Neuro-sickle clinic / GOSH

The Service

Journey through Service

Expert clinical assessment

- Scanning of children, 2yrs-16yrs old with Hbss
- Interpreting results of the scan
- Referrals to other services for further investigations where required

Medication management

- Blood Transfusion
- Hydroxycarbamide (disease modification)

Patient/ carer/ professional education

- Staff training on scanning / interpretation and bi-yearly updates
- Information leaflets for patients and carers
- Face to face patient education

Rapid response contact

- Dedicated phone line for access to service
- Drop in clinics

Care planning

- School care planning
- Pain management
- Blood Transfusion schedule

Multi-disciplinary liaison and team approach to care delivery

- Haematologists; Psychologists; Neuro-Sickle team; Play specialists

Referral routes

- From local hospitals into the service
- Outward referrals for further investigation (e.g. Mri / mra)

Activity/ delivery

- 70 patients per year
- Approximately 10 new referrals p.a.

Summary of Benefits

For patients / families

- Identification / prevention of stroke
- Remain well and in good health
- Better attainment for child and family
- Specific TCD clinics saves patients time
- Reducing stress and anxiety for patients and families
- Yearly TCD checks give patients assurance
- Improve self esteem
- Saves time for parents taking on care roles

For healthcare system

- Reduction of hospital admission and bed days
- Reduce waiting times at GP surgeries
- Less use of general health resources and infrastructure including social services
- Efficiency savings of £2158.70 made with nurse led service compared with consultant led service with equal and similar outcomes
- Specific clinics make hospital more efficient and better co-ordinated
- Free time for consultants to run clinics and reduce waiting times