

Ealing Community Partners

Management of Sickle Cell Disease

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NATIONAL STANDARDS

- All babies born in the UK are offered testing via the Newborn Screening Programme
 - Blood test between 5-7 days after birth

Positive Result

- Carrier status parents informed by 6 weeks old
- Confirmed SCD- parents are informed by 28 days old of the result
- Registered in local hospital by 8 weeks old
- Seen in clinic by 12 weeks old



RECOMMENDED MEDICATIONS & IMMUNISATION

Penicillin Prophylaxis

- Infant prescribed Penicillin V (or alternative) by 3 months old
- Prophylactic Penicillin given BD
- Folic Acid Daily
- Pneumococcal Immunisation
 - Commenced at age 2 years and every 5 years thereafter
- Hepatitis B



PAIN MANAGEMENT

- Depending on location & severity
- Home Medications
 - Adult-Codeine Phosphate, Naproxen, Co-codamol
 - Children-Paracetamol, Ibuprofen

Hospital Admission

- If pain cannot be controlled at home
- Psychological Interventions
 - Cognitive behavioural therapy
- Complementary Therapies
 - Tens machine, Massage, warm bath



PREVENTION OF ILL HEALTH

- Education of Parents / Patients
 - Recognising signs and symptoms of sickle cell crisis
 - Knowing when to seek medical help

Health & Lifestyle

- Try to prevent Infection
- Smoking
- Alcohol consumption
- Prevention of dehydration
- Avoid Stress
- Appropriate clothing



Social & Psychological-1

School

- Education of teachers/welfare officers
- Providing individual school healthcare plan
- Choosing suitable career

Travel

- Immunisations
- Insurance

Relationship & Marriage

- Preconception counselling
- Contraception & Family Planning
- Prevention of infection



SOCIAL & PSYCHOLOGICAL-2

Referrals

- Social Care
- Housing department
- Voluntary organisations
- Patient support groups



SPECIALIST THERAPIES

- Hydroxycarbamide
 - Recommended for all patients including infants to reduce sickle cell crisis and organ damage

Blood transfusion

- Strokes
- Recurrent splenic sequestration
- Chronic complications e.g. cardiac, respiratory
- Failed hydroxycarbamide or refused
- Bone Marrow Transplantation
 - Stem cells
 - Not yet standard treatment for adults



CLASSIFICATION OF THALASSAEMIA

Beta Thalassaemia Trait (Carrier/Minor)

- No treatment required

Thalassaemia Intermedia

- May require blood transfusion

Beta Thalassaemia Major

Blood transfusion dependant



SIGNS & SYMPTOMS OF THALASSAEMIA MAJOR

- Severe Anaemia
- Hb 20-60g/l around 6/12 months old
- Failure to thrive
- Skeletal Changes
- Prone to Infection



TREATMENT FOR THALASSAEMIA MAJOR

Regular Blood Transfusions to:

- Correct anaemia
- Enable growth and normal activity
- Prevent enlargement of the spleen and inhibit the erythroid marrow expansion
- Iron chelation when ferritin levels are >1000



COMPLICATIONS OF IRON OVERLOAD

- Delayed growth/ puberty
- Liver damage
- Diabetes
- Cardiac impairment/failure
- Erectile dysfunction
- Amenorrhoea



COVID-19 RECOVERY PLAN

- From 1st August Shielding Paused
- Advice is to:
 - Keep 2 metres away, if not possible wear face mask
 - Can go to work, as long as the workplace is COVIDsecure but carry on working from home if possible
 - Children can go back to school
 - Can go outside to buy food, to places of worship and for exercise
 - To follow all government recommendations

