



Sickle Cell Disease Management

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- GENERAL OVERVIEW

- Acute complications
- Chronic complications
- Transition from pediatric to adult care
- Morbidity and mortality

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- VASO-OCCLUSIVE PAIN
 - Acute painful episodes
 - Potentially serious complications associated with acute pain
 - Chronic pain
 - INFECTION
 - Common sites/common organisms
 - Impact of preventive care
 - MULTIORGAN FAILURE

- ANEMIA

- Chronic compensated hemolytic anemia
- Aplastic crisis
- Splenic sequestration crisis
- Hyperhemolytic crisis
- Iron deficiency

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- NEUROLOGIC COMPLICATIONS
 - Stroke and TIA
 - Seizures
 - Posterior reversible encephalopathy
 - PULMONARY COMPLICATIONS
 - Acute chest syndrome
 - Asthma
 - Sleep disordered breathing and nocturnal hypoxemia
 - Pulmonary hypertension
 - RENAL COMPLICATIONS

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- SKELETAL COMPLICATIONS
 - Dactylitis and vaso-occlusive pain
 - Osteoporosis
 - Avascular necrosis and osteomyelitis
 - CARDIAC COMPLICATIONS
 - Cardiomyopathy and heart failure
 - Myocardial infarction, dysrhythmia, and sudden death
 - HEPATOBIILIARY COMPLICATIONS

- OTHER MANIFESTATIONS

- Leg ulcers
- Retinopathy
- Pregnancy complications
- Priapism
- Venous thromboembolism
- Growth and development
- Psychosocial issues

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- Acute chest syndrome in adults with sickle cell disease
 - Acute stroke in sickle cell disease
 - Diagnosis of sickle cell disorders
 - Evaluation of acute pain in sickle cell disease
 - Hematopoietic stem cell transplantation in sickle cell disease
 - Hepatic manifestations of sickle cell disease
 - Hydroxyurea use in sickle cell disease
 - Management of fever in sickle cell disease
 - Mechanisms of vaso-occlusion in sickle cell disease
 - Methods for hemoglobin analysis and hemoglobinopathy testing
 - Overview of the management and prognosis of sickle cell disease
 - Overview of the pulmonary complications of sickle cell disease
 - Patient education: Sickle cell disease (The Basics)
 - Patient education: When your child has sickle cell disease (The Basics)

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- Pregnancy in women with sickle cell disease
 - Prenatal screening and testing for hemoglobinopathy
 - Prevention of stroke (initial or recurrent) in sickle cell disease
 - Priapism and erectile dysfunction in sickle cell disease
 - Pulmonary hypertension associated with sickle cell disease
 - Red blood cell transfusion in sickle cell disease
 - Renal manifestations of sickle cell disease
 - Routine comprehensive care for children with sickle cell disease
 - Sickle hemoglobin polymer: Structure and functional properties
 - Structure and function of normal hemoglobins
 - The acute chest syndrome in children and adolescents with sickle cell disease
 - Transition from pediatric to adult care: Sickle cell disease
 - Vaso-occlusive pain management in sickle cell disease

