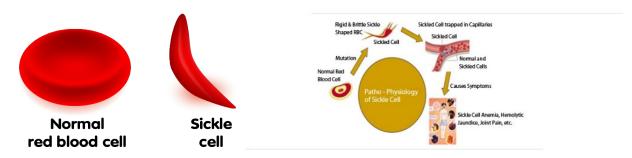
SICKLE CELL BROCHURE

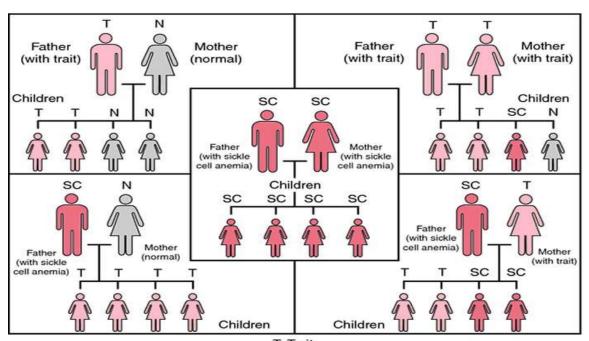
SICKLE CELL DIESEASE



According to CDC,

- Sickle cell disease (SCD) is a group of inherited red blood cell disorders.
- ❖ Healthy red blood cells are round and SCD C -shaped farm tool called a "sickle".
- * Red blood cells move through small blood vessels carrying oxygen to all parts of the body.
- the red blood cells become hard and sticky with sickle cell
- Sickle cells die early, which causes a constant shortage of red blood cells.
- Sickle cells can get stuck in small blood vessels and block the flow of blood and oxygen to organs in the body.
- ❖ These blockages cause repeated episodes of severe pain, organ damage, serious infections, or even stroke.

TYPES OF SICKLE CELL



T- Trait N- Normal SC- Sickle cell

SICKLE CELL TRAIT (SCT)

- People who have inherit one sickle cell gene ("S") from one parent and one normal gene ("A") from the other parent.
- People with SCT usually do not have any of the signs of the disease and live a normal life.
- They can pass the trait on to their children.

Few uncommon health problems that may potentially be related to sickle cell trait.

HbAS (SCT): Parent A + Parent S = Baby AS

HbSS (sickle cell anemia): Parent S + Parent S = Baby SS

HbSC (milder form of SCD); Parent S + Parent C = Baby SC

HbS beta thalassemia: Parent S + Parent beta thalassemia ("0" and "+".) = Baby S beta thalassemia

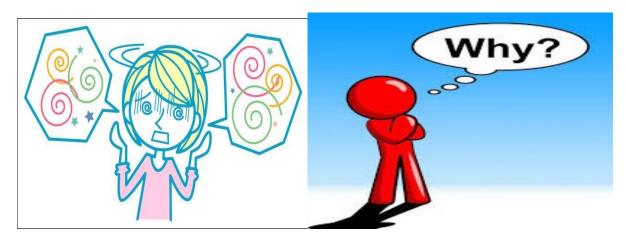
HbSD: Parent S + Parent D = Baby SD

HbSE: Parent S + Parent E = Baby SE

HbSO: Parent S + Parent O = Baby SO

Those with HbS beta 0-thalassemia usually have a severe form of SCD. People with HbS beta +-thHbSD, HbSE, and HbSO. People who have these forms of SCD inherit one sickle cell gene ("5") and one gene from an abnormal type of hemoglobin ("D", "E", or "O"). Hemoglobin is a protein that allows red blood cells to carry oxygen to all parts of the body. The severity of these rarer types of SCD varies. alassemia tend to have a milder form of SCD.

CAUSES OF SICKLE CELL DISEASE



- It is an inherited disease.
- SCD is recessive
- Not contagious.

WHO IS AFFECTED?



Millions of people

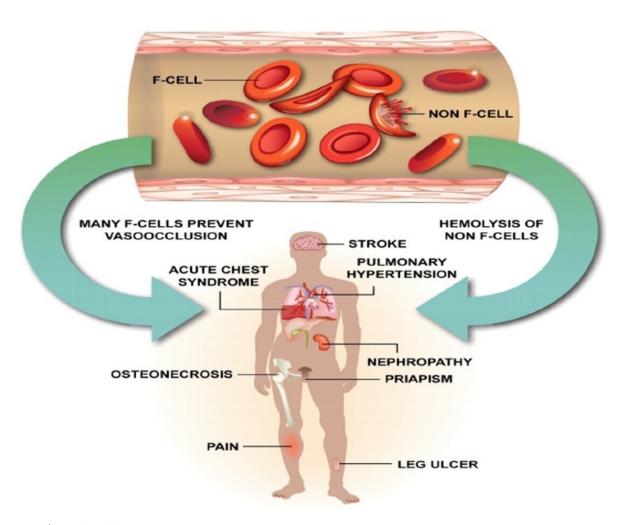
DO I HAVE SICKLE CELL?



- DIAGNOSIS
- ❖ Blood Test
- ❖ Before or After Birth

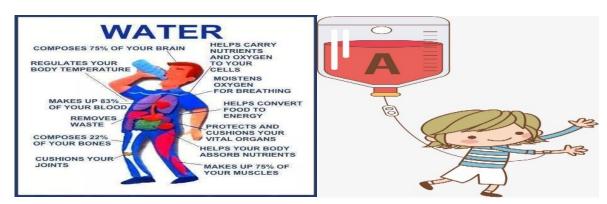
SICKLE CELL RELATED PROBLEM





- Pain Crisis.
- **❖** Infection
- Hand and Foot swelling.
- Eye disease
- ❖ Acute Chest Syndrome.
- Stroke

TREATMENT OF SICKLE CELL

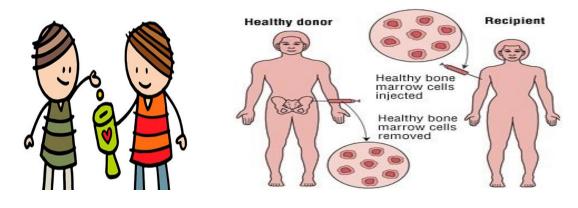






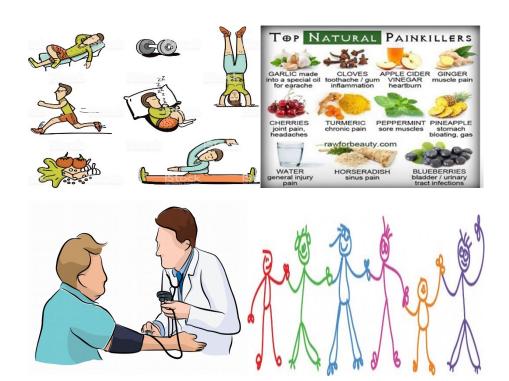
- ❖ Blood Transfusion
- High Fluid intake
- Intravenous (IV) therapy.
- Pain Medication
- Hydroxyurea

CURE FOR SICKEL CELL DISEASE



❖ Bone Marrow or Stem Transplant.

LIVING WITH SICKLE CELL



- Good Medical Care (Specialist)
- Regular Checkups
- Prevent Infection
- Healthy Habits
- Support

INFECTION PREVENTION

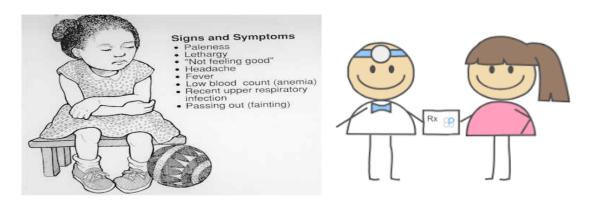


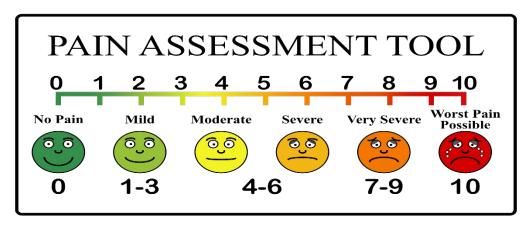




- Vaccines
- Hand Washing

WHEN TO SEE A DOCTOR





- ❖ Pain anywhere in the body that will not go away with treatment at home
- Any sudden problem with vision
- ❖ Fever above 101° F
- Difficulty breathing
- Chest pain
- ❖ Abdominal (belly) swelling
- Severe headache
- Sudden weakness or loss of feeling and movement
- Seizure
- Painful erection of the penis that lasts more than 4 hours

SICKLE CELL AND EXERCISING



- Walking.
- Dance
- Swimming / Water aerobics (heated).
- Yoga
- All Non Competitive Sports
- Cycling
- Stretching

SICKLE CELL AND PREGNANCY

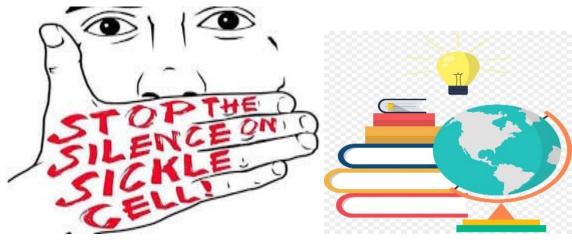


- Frequent severe, and pain episodes
- Preterm labor,
- Having a low birth weight baby
- Other complications

- Needs during Pregnancy
- Early prenatal care and
- Careful monitoring throughout pregnancy.

SICKLE CELL PREVENTION





- Get Tested Before Marriage.
- Education