

Newborn Screening ACT Sheet FSC

HEMOGLOBIN SC DISEASE (Hb SC)

Meaning of the Screening Result: Hemoglobin FSC pattern on newborn screen is highly suggestive of **hemoglobin SC disease**.

YOU SHOULD TAKE THE FOLLOWING ACTIONS:

- **Refer to Pediatric Hematologist for diagnostic evaluation and management,**
- **Contact the family to inform them of the screening result.**
- **Evaluate the infant, examine for splenomegaly, draw a complete blood count with reticulocyte count and repeat newborn screen to confirm FSC.**
- **In consultation with hematologists, initiate prophylactic penicillin (Pen VK 125 mg po bid).**
- **Educate parents to have the infant seen and evaluated for sepsis, when the baby's temperature is 101°Fahrenheit (38° Celsius) or greater.**
- **Report findings to Nebraska Newborn Screening Program.**

Pediatric hematologists are available at the Infant Hemoglobinopathy Clinic through Children's Nebraska in Omaha 402-955-3950.

Condition Description: Individuals with hemoglobin S-C disease are compound heterozygotes for the genes for hemoglobin S and hemoglobin C.

Clinical Expectations: Potential clinical problems include **moderate hemolytic anemia, life-threatening infection, episodes of pain and organ damage and organ failure.** Comprehensive care including prophylactic penicillin, recommended immunizations, family education and prompt treatment of acute illness reduces morbidity and mortality. It is strongly recommended that these children be followed by specialists in hemoglobinopathies as part of coordinated care with their medical home.

Confirmation of results: Confirmation may be done by **submitting a repeat dried blood spot filter paper specimen.** Parental or DNA studies may be done as indicated with hematology.

If you have additional questions, please call the Infant Hemoglobinopathy Clinic through Children's Nebraska in Omaha 402-955-3950.