

## Sickle Cell Disease

### **Measure 9: Anticipatory Guidance for Prevention and Management of Splenic Complications in Children with Sickle Cell Disease**

#### **Description**

The percentage of children identified as having Sickle Cell Disease who received anticipatory guidance regarding the identification, prevention and/or management of splenic complications as part of outpatient care during the measurement year. A higher proportion indicates better performance as reflected by appropriate guidance.

#### **Calculation**

This measure requires medical record data and is calculated as follows:

The percentage of eligible children who received anticipatory guidance regarding the identification, prevention and/or management of splenic complications (numerator divided by denominator).

#### **Definitions**

- Intake period** January 1 through December 31 of the measurement year.
- Anticipatory guidance** Any written or face-to-face verbal communication regarding the identification, prevention and/or management of splenic complications as part of outpatient care with patient, parent, or family member.
- Outpatient care** A Health Maintenance Exam (HME) or an Evaluation and Management (E&M) visit with primary care provider or a specialist (see Table 9-A).

**Table 9-A: Codes to Identify Ambulatory or Preventive Care Visits**

Description	CPT	HCPCS	ICD-9-CM Diagnosis
Office or other outpatient services	99201-99205, 99211-99215, 99241-99245		
Preventive medicine	99381-99385, 99391-99395, 99401-99404, 99411-99412, 99420, 99429	G0438, G0439	
General medical examination			V20.2, V70.0, V70.3, V70.5, V70.6, V70.8, V70.9

#### **Eligible Population**

The determination of eligible population for this measure requires medical record data.

- Ages** Younger than four years of age during measurement year
- Event/Diagnosis** Diagnosed with sickle cell disease as documented in the medical record (see Table 9-B).

NOTE: See exclusions noted below; there are several sickle cell variants that may be recorded under the 282.49 ICD-9 code that do not qualify for inclusion (see Table 9-C). Medical records for cases with ICD-9 code 282.49 should not be reviewed unless a diagnosis of Hb beta zero-thalassemia can be confirmed.

**Table 9-B: Codes to Identify Sickle Cell Disease**

Condition Name	Hemoglobin Screening Result	ICD-9 Code(s)
<a href="#">Hb beta zero-thalassemia</a>	Hb F only	282.49
<a href="#">Hb S beta-thalassemia</a>	Hb F,S,A	282.41, 282.42
<a href="#">Hb SC-disease</a>	Hb F,S,C	282.63, 282.64
<a href="#">Hb SD-disease</a>	Hb F,S,D	282.68, 282.69
<a href="#">Hb SS-disease (sickle cell anemia)</a>	Hb F,S	282.6, 282.61, 282.62

## Specification

**Denominator** The eligible population for the denominator is the number of children younger than 4 years of age identified as having SCD who received outpatient care during the measurement year.

**Numerator** The eligible population for the numerator is the number of children younger than 4 years of age identified as having SCD who received anticipatory guidance regarding the identification, prevention, and/or management of splenic complications as part of outpatient care during the measurement year.

Documentation in medical record must include, at a minimum, a note containing the date on which verbal or written anticipatory guidance was provided.

## Exclusions

- Children with evidence of a splenectomy should not be included in the eligible population.
- Inpatient stays, emergency department visits, urgent care visits.
- Children with diagnosis in the sampled medical record indicating one of the sickle cell disease variants listed in Table 9-C should not be included in the eligible population *unless* there is also a diagnosis for a sickle cell variant listed in Table 9-B.

**Table 9-C: Excluded Sickle Cell Disease Diagnosis Codes**

Condition Name	Hemoglobin Screening Result	ICD-9 Code(s)
<a href="#">Hb C beta-thalassemia</a>	Hb F,C,A	282.49
<a href="#">Hb D beta-thalassemia</a>	Hb F,D,A	282.49
<a href="#">Hb E beta-thalassemia</a>	Hb F,E,A	282.49
<a href="#">Hb C-disease</a>	Hb F,C	282.7
<a href="#">Hb E-disease</a>	Hb F,E	282.7
<a href="#">Hb H-disease</a>	Hb F,H	282.49
<a href="#">Hb SE-disease</a>	Hb F,S,E	282.68, 282.69
<a href="#">Hb C-carrier</a>	Hb F,A,C	282.7
<a href="#">Hb D-carrier</a>	Hb F,A,D	282.7
<a href="#">Hb E-carrier</a>	Hb F,A,E	282.7
<a href="#">Hb S (sickle)-carrier</a>	Hb F,A,S	282.5