

Sickle Cell Disease

Measure 13: Transcranial Doppler Ultrasonography Screening among Children with Sickle Cell Anemia

Description

The percentage of children in a state 2 through 15 years old (that is, ≥ 24 months but < 16 years of age) during the measurement year and identified as having Sickle Cell Anemia who received Transcranial Doppler ultrasonography. A higher proportion indicates better performance as reflected by appropriate testing.

Calculation

This measure requires administrative data and is calculated as follows:

The percentage of eligible children who received Transcranial Doppler ultrasonography (numerator divided by denominator).

Definitions

Intake period	January 1 of the measurement year through December 31 of the measurement year.
Transcranial Doppler ultrasonography	Test measuring blood flow through intracranial arteries (see Table 13-A).

Table 13-A: Acceptable Transcranial Doppler Ultrasonography tests

TCD Description	CPT code
Complete study	93886
Limited study	93888
Vasoreactivity study	93890
Emboli detection without intravenous microbubble injection	93892
Emboli detection with intravenous microbubble injection	93893

Eligible Population

Ages	Children ≥ 24 months on January 1 of the measurement year but younger than 16 years on December 31 of the measurement year.
Enrollment	Continuous enrollment during the measurement year.
Event/Diagnosis	Identify members in a state as having sickle cell disease who had appropriate sickle cell disease-related ICD-9 codes on three or more separate healthcare encounters (see Table 13-B) during the measurement year.

Table 13-B: Codes to Identify Sickle Cell Disease

Condition Name	Hemoglobin Screening Result	ICD-9 Code(s)
Hb SS-disease (sickle cell anemia)	Hb F,S	282.61, 282.62

Specification

Denominator The eligible population.

Numerator Eligible children who received Transcranial Doppler ultrasonography.