Supplemental Digital Content 1, Measure Definitions

Appropriate Treatment for Children with Upper Respiratory Infections (URI) (NQF 0069, MU2, CMS 154)

Definition: Percentage of children 3 months-18 years of age who were diagnosed with upper respiratory infection (URI) and were not dispensed an antibiotic prescription on or three days after the episode.

Numerator: Children without a prescription for antibiotic medication on or three days after the outpatient visit for upper respiratory infection.

Denominator: Children 3 months to 18 years of age who had an outpatient visit with a diagnosis of upper respiratory infection (URI) during the measurement period.

Exclusions: Children who are taking antibiotics in the 30 days prior to the date of the encounter during which the diagnosis was established or who had an encounter with a competing diagnosis within three days after the initial diagnosis of URI.

Codes: ICD9: 460, 465.0, 465.8, 465.9; ICD10: J06.9.

Appropriate Treatment for Children with Acute Bacterial Sinusitis (ABS)

Definition: Percentage of children 1-18 years of age with a diagnosis of acute sinusitis and dispensed a FIRST-LINE ANTIBIOTIC (amoxicillin or amoxicillin-clavulanate).

Numerator: Children with the diagnosis of acute sinusitis who received either amoxicillin or amoxicillin-clavulanate.

Denominator: Children 1-18 years of age who had an outpatient visit with a diagnosis of acute sinusitis during the measurement period.

Exclusions: Children who are taking antibiotics in the 60 days prior to the date of the encounter during which the diagnosis was established or who had an encounter with a competing diagnosis or co-morbid condition. Children who have a documented allergy to penicillin (including amoxicillin and amoxicillin-clavulanate).

Codes: ICD9: 461, 461.0, 461.1, 461.2, 461.3, 461.8, 461.9, 473.9; ICD10: J01.00, J01.10, J01.20, J01.30, J01.40, J01.90, J32.9.

Appropriate Treatment for Children with Acute Otitis Media (AOM)

Definition: Percentage of children 6 months to 12 years of age with a diagnosis of acute otitis media and dispensed the FIRST-LINE ANTIBIOTIC (amoxicillin).

Numerator: Children who received the first line antibiotic-amoxicillin.

Denominator: Children 6 months to 12 years of age who had an outpatient visit with a diagnosis of acute otitis media during the measurement period.

Exclusions: Children who are taking antibiotics in the 60 days prior to the date of the encounter during which the diagnosis was established or who had an encounter with a competing diagnosis or co-morbid condition. Children who have a documented allergy to penicillin (including amoxicillin and amoxicillin-clavulanate).

Codes: ICD9: 382.00, 382.01, 382.02, 382.4, 382.9, 384.20; ICD10: H66.009, H66.019, H66.40, H66.90, H66.91, H66.92, H66.93, H67.9, H72.90.