#	Measure	Numerator	Denominator	IOM Quality Domain	Donabedian Framework	Diagnosis Category	Measure Level*	Required Data Elements	Notes /Reference
								* (A)Individual Clinician or Group of Clinicians (e.g. nurses, residents, attendings, fellows); (B) Facility (ED); (C) System-Wide Measure	
Childhood Infections									
10.1	Antibiotic treatment for children with sickle cell disease or documented neutropenia	Number of eligible children receiving antibiotics	Number of children <18 years of age with sickle cell disease or documented neutropenia and fever	Effective, Safe	Process	Fever, Immunosuppression	A, B	Unique visit identifier ICD-9 code Temperature Medication name Lab test result	Definitions: -Fever: History or documentation of fever greater than or equal to 38.5°C (101.3°F) anytime within 24 hours prior to presentation or during ED visit -Sickle Cell Disease: Hgb SS, Hgb SC, HgbSβthal (° or +) -Neutropenia: ANC less than or equal to 500
10.2	Time to antibiotic treatment for children with sickle cell disease or documented neutropenia	Time from arrival to administration of first antibiotic	N/A	Effective, Timely	Process	Fever, Immunosuppression	A, B	Unique visit identifier Patient arrival time ICD-9 code Temperature Medication name Lab test result	Sample: Number of patients < 18 years of age with sickle cell disease or neutropenia and fever who received antibiotics Definitions: -Fever: History or documentation of fever greater than or equal to 38.5°C (101.3°F) anytime within 24 hours prior to presentation or during ED visit -Sickle Cell Disease: Hgb SS, Hgb SC, HgbSβthal (° or +) -Neutropenia: ANC less than or equal to 500 Report measure as median time with interquartile range
10.3	Catheterized urine cultures for young children prior to antibiotic therapy	Number of patients with catheterized urine culture obtained prior to antibiotics	Number of patients <24 months of age with a new diagnosis of UTI based on discharge ICD-9 code for UTI who were prescribed or treated with antibiotics	Effective	Process	Urinary Tract Infection	A, B	Unique visit identifier ICD-9 code Medication name Medication receipt time CPT code Procedure time	
10.4	Reducing antibiotic use in children with viral illnesses	Number of eligible patients given antibiotics or discharged with an antibiotic prescription	Number of patients <18yrs of age with an ICD-9 discharge diagnosis of URI, viral illness, viral syndrome, or fever	Effective, Efficient	Process	Viral Illness, URI	A, B	Unique visit identifier ICD-9 code Medication name Medication receipt time Discharge prescription(s)	-Exclude patients with a concomitant bacterial infection diagnosis that requires antibiotics (ICD-9 codes to be provided) -Exclude immunocompromised patients -Goal is for this measure to be low

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Childhood Infections									
10.5	Blood, urine and cerebrospinal fluid cultures for neonates prior to antibiotic therapy	Number of febrile neonates who received antibiotic therapy AFTER having CSF, blood, AND urine cultures obtained	Number of patients <= to 29 days old with a history or documentation of fever greater than or equal to 38.0°C (100.4°F) anytime within 24 hours prior to presentation or during visit	Effective	Process	Neonatal Fever	A, B	Unique visit identifier ICD-9 code Medication name Medication receipt time Task complete time	Definitions: -Fever: History or documentation of fever greater than or equal to 38.0°C (100.4°F) anytime within 24 hours prior to presentation or during ED visit -Neonate: Less than or equal to 29 days of age