

Periodic neurodevelopmental assessment for ASO patients	
Measure Description: Proportion of Arterial Switch Operation (ASO) patients, 2-5 years old, who were recommended to have a neurodevelopmental evaluation.	
Numerator	Number of patients with at least one documented recommendation for a neurodevelopmental evaluation in their medical chart between the ages of 2-5 years old.
Denominator	Number of ASO patients, ages 5-9 years, who have had at least one outpatient cardiology clinic visit during the measurement period
Denominator Exclusions	None
Denominator Exceptions	None
Definitions/Notes	N/A
Measurement Period	Quarterly
Sources of Data	Medical Record
Attribution	This measure should be reported by the departmental quality manager.
Care Setting	Outpatient
Rationale	
Patients after ASO are at high risk of neurodevelopmental disorder.	
1. Hövels-Gürich HH, Seghaye MC, Schnitker R, Wiesner M, Huber W, Minkenberg R, Kotlarek F, Messmer BJ, Von Bernuth G. Long-term neurodevelopmental outcomes in school-aged children after neonatal arterial switch operation. <i>J Thorac Cardiovasc Surg</i> . 2002 Sep;124(3):448-58. 2. Marino BS, Lipkin PH, Newburger JW, Peacock G, Gerdes M, Gaynor JW, Mussatto KA, Uzark K, Goldberg CS, Johnson WH Jr, Li J, Smith SE, Bellinger DC, Mahle WT; American Heart Association Congenital Heart Defects Committee, Council on Cardiovascular Disease in the Young, Council on Cardiovascular Nursing, and Stroke Council. Neurodevelopmental outcomes in children with congenital heart disease: evaluation and management: a scientific statement from the American Heart Association. <i>Circulation</i> . 2012 Aug 28;126(9):1143-72.	
Clinical Recommendation(s)	
<u>ACC/AHA Guidelines</u> Children with CHD are at increased risk of developmental disorder or disabilities or developmental delay. Periodic developmental surveillance, screening, evaluation, and reevaluation throughout childhood may enhance identification of significant deficits, allowing for appropriate therapies and education to enhance later academic, behavioral, psychosocial, and adaptive functioning. (Marino BS et al.)	
<u>Other guidelines:</u> N/A	

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Challenges to Implementation		
None		
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