

eMeasure Title	Follow-up with Patient Family after Developmental Screening		
eMeasure Identifier (Measure Authoring Tool)	274	eMeasure Version number	0.0.003
NQF Number	None	GUID	289702e5-e416-4682-996e-2382044cb0f0
Measurement Period	January 1, 20xx through December 31, 20xx		
Measure Steward	Agency for Healthcare Research & Quality (AHRQ), Pediatric Measurement Center of Excellence (PMCoE)		
Measure Developer	PMCoE		
Endorsed By	TBD		
Description	Percentage of patients aged 6 months to 36 months whose family received a follow-up discussion of developmental screening results on the same day of the screening visit		
Copyright	Please see Attachment 2.2 for Copyright information		
Disclaimer	<p>Disclaimer Language: These performance Measures are not clinical guidelines and do not establish a standard of medical care, and have not been tested for all potential applications.</p> <p>THE MEASURES AND SPECIFICATIONS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND.</p>		
Measure Scoring	Proportion		
Measure Type	Process		
Stratification	Race, ethnicity, socioeconomic status, sex, source of payment		
Risk Adjustment	None		
Rate Aggregation	State, geographic region, health plan, practice, provider, Medicaid/CHIP		
Rationale	<p>The following clinical recommendation statements are quoted verbatim from the referenced policy statement and represent the evidence base for the measure:</p> <p>If the results are normal, the child health professional should inform the parents and continue with other aspects of the preventive visit. If there was concern prior to the screen or the screening result was concerning, additional surveillance or evaluations should be scheduled.¹</p> <p>In addition: An implementation study of standardized developmental screening found that when providers were instructed to score and respond to survey results with the parent at the visit during which the screen was interpreted, providers' confidence in their ability to screen and identify developmental delays increased. Similarly, discussing screening results with parents not only allowed providers to better refer children to follow up services, it also provided an opportunity for parents to discuss general developmental concerns that might not have been identified with the screening tool.² Taking the time to discuss both positive and negative screening results with family members and documenting them in the medical chart indicates that the provider has interpreted and discussed the screening results and provided the family with time to ask clarifying questions or voice any additional concerns.</p>		
Clinical Recommendation Statement	Not applicable		
Improvement Notation	A higher score equals better quality.		
Reference	1. Council on Children with Disabilities Section on Developmental Behavioral Pediatrics, Bright Futures Steering Committee, Medical Home Initiatives for Children with Special Needs Project Advisory Committee. (2006). Identifying infants and young children with developmental disorders in the medical home: an algorithm for developmental surveillance and screening. <i>Pediatrics</i> , 118(1), 405-420.		
Reference	2. Schonwald, A., Huntington, N., Chan, E., Risko, W. Bridgemohan, C. (2009). Routine developmental screening implemented in urban primary care settings: more evidence of feasibility and effectiveness. <i>Pediatrics</i> , 123(2),660-668.		
Definition	<p>1: Follow-up discussion: Physician-parent communication which includes reporting the screening scores, explanation of screening results, and clearly outlining next steps (which may include referrals) and expectations.</p> <p>2: A standardized developmental screening instrument is defined as an instrument that meets the following criteria:</p> <p>A) Developmental domains: The following domains must be included in the standardized developmental screening tool: motor, language, cognitive, and social-emotional</p> <p>B) Reliability: Reliability scores of approximately 0.70 or above.</p> <p>C) Validity: Validity scores for the tool must be approximately 0.70 or above. Measures of validity must be conducted on a significant number of children and using an appropriate standardized developmental or social-emotional</p>		

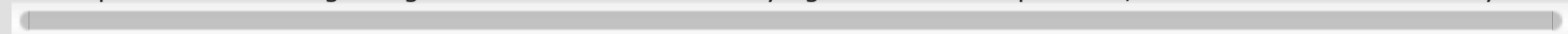
assessment instrument(s)

D) Sensitivity/Specificity: Sensitivity and specificity scores of approximately 0.70 or above

Some tools that meet these criteria include:

Ages and Stages Questionnaire (ASQ), 2 months - 5 years
Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months
Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years
Brigance Screens-II, birth - 90 months
Child Development Inventory (CDI), 18 months-6 years
Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years
Infant Development Inventory, birth - 18 months
Parents' Evaluation of Developmental Status (PEDS), birth - 8 years

Non-recommended tools are those that do not meet the above criteria. It is important to note that standardized tools specifically focused on one domain of development [e.g. child's socio-emotional development (ASQ-SE) or autism (M-CHAT)] are not included in the list above as this measure is anchored to recommendations focused on global developmental screening using tools that focus on identifying risk for developmental, behavioral and social delays.



Guidance	None
Transmission Format	TBD
Initial Population	Patients aged 6 month to 36 months who received developmental screening using a validated tool
Denominator	All patients aged 6 months to 36 months who received a developmental screen using a standardized developmental screening tool that was administered either by the primary care clinician or if conducted elsewhere, appears in the patient's medical chart.
Denominator Exclusions	None
Numerator	Patients whose family received a discussion of the developmental screen by a primary care clinician on the same day of the screening visit.
Numerator Exclusions	None
Denominator Exceptions	This measure has no exceptions
Measure Population	Not applicable
Measure Population Exclusions	Not applicable
Measure Observations	Not applicable
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and gender.

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Population criteria

- **Initial Population =**
 - AND: Intersection of:
 - "Birthdate : Patient Characteristic Birthdate (start datetime >= 6 month(s))" starts before end of "Measurement Period"
 - "Birthdate : Patient Characteristic Birthdate (start datetime <= 36 month(s))" starts before end of "Measurement Period"
 - Intersection of:
 - Union of:
 - "Encounter, Performed: Face-to-Face Interaction"
 - Union of:
 - "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17"
 - Union of:
 - "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17"
 - Intersection of:
 - Union of:

- "Diagnostic Study, Performed: Ages and Stages Questionnaire (ASQ), 2 months - 5 years"
 - Union of:
 - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months"
 - Union of:
 - "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years"
 - Union of:
 - "Diagnostic Study, Performed: Brigance Screens-II, birth - 90 months"
 - Union of:
 - "Diagnostic Study, Performed: Child Development Inventory (CDI), 18 months - 6 years"
 - Union of:
 - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years"
 - Union of:
 - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months"
 - Union of:
 - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years"

- **Denominator =**

- AND: Initial Population
- AND: Intersection of:
 - "Birthdate : Patient Characteristic Birthdate (start datetime >= 6 month(s))" starts before end of "Measurement Period"
 - "Birthdate : Patient Characteristic Birthdate (start datetime <= 36 month(s))" starts before end of "Measurement Period"
 - Intersection of:
 - Union of:
 - "Encounter, Performed: Face-to-Face Interaction"
 - Union of:
 - "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17"
 - Union of:
 - "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17"
 - Intersection of:
 - Union of:
 - "Diagnostic Study, Performed: Ages and Stages Questionnaire (ASQ), 2 months - 5 years"
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 - Union of:
 - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years"
 - Union of:
 - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months"
 - Union of:
 - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years"

- **Denominator Exclusions =**

- None

- **Numerator =**

- AND:
 - AND: Intersection of:
 - "Birthdate : Patient Characteristic Birthdate (start datetime >= 6 month(s))" starts before end of "Measurement Period"
 - "Birthdate : Patient Characteristic Birthdate (start datetime <= 36 month(s))" starts before end of "Measurement Period"
 - Intersection of:
 - Union of:
 - "Encounter, Performed: Face-to-Face Interaction"
 - Union of:
 - "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17"
 - Union of:
 - "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17"
 - Intersection of:
 - Union of:

- "Diagnostic Study, Performed: Ages and Stages Questionnaire (ASQ), 2 months - 5 years"
 - Union of:
 - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months"
 - Union of:
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 - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years"
 - Union of:
 - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months"
 - Union of:
 - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years"
- AND:
 - AND: Union of:
 - "Communication: From Provider to Patient: Discussion of a developmental screening result" concurrent with Union of:
 - Union of:
 - "Diagnostic Study, Performed: Ages and Stages Questionnaire (ASQ), 2 months - 5 years"
 - Union of:
 - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months"
 - Union of:
 - "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years"
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 - Union of:
 - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months"
 - Union of:
 - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years"

● **Numerator Exclusions =**

- None

● **Denominator Exceptions =**

- None

● **Stratification =**

- None

Data Criteria (QDM Variables)

- None

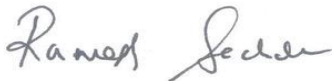
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- "Communication: From Provider to Patient: Discussion of a developmental screening result" using "Discussion of a developmental screening result User Defined QDM Value Set (1.1.1.1)"
 - "Diagnostic Study, Performed: Ages and Stages Questionnaire (ASQ), 2 months - 5 years" using "Ages and Stages Questionnaire (ASQ), 2 months - 5 years User Defined QDM Value Set (1.1.1.1)"
 - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months" using "Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months User Defined QDM Value Set (1.1.1.1)"
 - "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years" using "Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years User Defined QDM Value Set (1.1.1.1)"
 - "Diagnostic Study, Performed: Brigance Screens-II, birth - 90 months" using "Brigance Screens-II, birth - 90 months User Defined QDM Value Set (1.1.1.1)"
 - "Diagnostic Study, Performed: Child Development Inventory (CDI), 18 months - 6 years" using "Child Development Inventory (CDI), 18 months - 6 years User Defined QDM Value Set (1.1.1.1)"
 - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years" using "Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years User Defined QDM Value Set (1.1.1.1)"

- "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months" using "Infant Development Inventory, birth - 18 months User Defined QDM Value Set (1.1.1.1)"
- "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years" using "Parents' Evaluation of Developmental Status (PEDS), birth - 8 years User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Performed: Face-to-Face Interaction" using "Face-to-Face Interaction Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1048)"
- "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17" using "Preventive Care - Established Office Visit, 0 to 17 Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1024)"
- "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17" using "Preventive Care- Initial Office Visit, 0 to 17 Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1022)"

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- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity CDCREC Value Set (2.16.840.1.114222.4.11.837)"
 - "Patient Characteristic Payer: Payer" using "Payer SOP Value Set (2.16.840.1.114222.4.11.3591)"
 - "Patient Characteristic Race: Race" using "Race CDCREC Value Set (2.16.840.1.114222.4.11.836)"
 - "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex AdministrativeSex Value Set (2.16.840.1.113762.1.4.1)"

Measure Set	Not applicable
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