**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  
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**Disclaimer**: 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. THE MEASURES AND SPECIFICATIONS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND.  
**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**: The following clinical recommendation statements are quoted verbatim from the referenced policy statement and represent the evidence base for the measure:

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

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.

**Clinical Recommendation Statement**: Not applicable

**Improvement Notation**: A higher score equals better quality.

**Reference**

**Reference**

**Definition**
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.

2: A standardized developmental screening instrument is defined as an instrument that meets the following criteria:
   A) Developmental domains: The following domains must be included in the standardized developmental screening tool: motor, language, cognitive, and social-emotional
   B) Reliability: Reliability scores of approximately 0.70 or above.
   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 tool.
on a significant number of children and using an appropriate standardized 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.

Table of Contents

- Population criteria

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"
    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 Exclusions =
  None

Numerator =
  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"
"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"

AND:
  AND: Union of:
    "Communication: From Provider to Patient: Discussion of a developmental screening result" concurrent with Union of:
      "Diagnostic Study, Performed: Ages and Stages Questionnaire (ASQ), 2 months - 5 years"

      "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months"

      "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years"

      "Diagnostic Study, Performed: Brigance Screens-II, birth - 90 months"

      "Diagnostic Study, Performed: Child Development Inventory (CDI), 18 months - 6 years"

      "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years"

      "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months"

      "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
- "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)"

- "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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