eMeasure Title	Follow-up Referral Tracking		
eMeasure Identifier (Measure Authoring Tool)	377	eMeasure Version number	0.0.001
NQF Number	None	GUID	e84aae28-aabf-419e-888e-6e28d907cabd
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 to 36 months whose primary care clinician received feedback from the follow-up care clinician within 6 months of the date that referral for follow-up care was made		
Copyright	Please see Attachment 2.2 for Copyright information		
Disclaimer	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. 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 a child is found to have a developmental delay (disease etiology does not need to be defined), the child should be identified by the medical home for appropriate chronic-condition management and regular monitoring and entered into the practice's children and youth with special health care needs registry. Children should also be referred to community-based family support services such as respite care, parent-to-parent programs, and advocacy organizations.[1] In addition: A study aiming to assess the degree to which a national sample of pediatric practices could implement the American Academy of Pediatrics (AAP) recommendations for developmental screening and referrals found that while difficult to implement, referral tracking was feasible with a few workflow modifications. In addition, practices that successfully tracked referral found that many families do not follow through with referrals, families often do not understand where they are being referred or the reason for referral, tracking of referrals leads to better communication with local referral resources, and tracking led some practices to conclude that more children are being identified and linked to services as feedback on eligibility status of the referred children informs practices about their screening success.[2] The definition of a medical home put forth by the AAP requires the maintenance of a central, accessible, and comprehensive record containing all pertinent information about the child. Furthermore, medical care may be provided in various locations but regardless of the venue in which care is provided, a designated physician must ensure that the services are in fact provided.[3] As a developmental delay can impact a child's ability to function in many settings, it is important that children who fail screens are referred promptly to follow up services and in order for a provider to comply with the AAP's medical home guidelines, referrals must be tracked.		
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 refend screening. Pediatrics, 118(1), 405-420.		
Reference	2. King, T.M., Tandon, S.D., Macias, M.M., Healy, J.A., Duncan, P.M., Swigonski, N.L., Skipper, S.M., Lipkon, P.H. (2010). Implementing developmental screening and referrals: lessons learned from a national project. Pediatrics, 125(2), 350-360.		
Reference	3. Medical Home Initiatives for Children with Special Needs Project Advisory Committee.2008 (reaffirmed). The medical home. Pediatrics, 122(2).		
Definition	1 Feedback from follow-up care clinician refers to correspondence between the two clinicians by way of phone, fax, paper documentation transmitted through mail, or other permissible means of transferring patient information regarding the result of the patient's visit for follow-up services.		

regarding the result of the patient's visit for follow-up services

2 Referral for follow up care is defined as the formal event by which the clinician provides a referral to the patient family (which does not include any further steps in the process like securing the appointment, confirming appointment attendance, etc.) and refers to any type of therapy, intervention, or education to mitigate developmental delays and can be within the medical home or outside of the medical home. Some referral types are listed as examples below but the list is not exhaustive:

Part C Early Intervention Program
Referral for Follow up Testing
Home Visiting for 0-5
Physical Therapist
Occupational Therapist
Speech/Language Pathologist
Medical Home Clinician Internal
Specialty Clinician External
Early Head Start
Network Care Manager
Family-to-family Support
Hearing and Vision Specialists
Mental Health Specialist

Notes:
1. Proper referral by the physician should include a parent consent form authorizing the use or disclosure of health information between healthcare providers. This authorization should prevent any limitation of the follow-up care clinician in being able to effectively provide feedback on the patient.

Guidance	None
Transmission Format	TBD
Initial Population	All patients aged 6 months to 36 months who received a referral for developmental delay follow-up care or evaluation
Denominator	All patients aged 6 months to 36 months who received a referral for developmental delay follow-up care or evaluation
Denominator Exclusions	None
Numerator	Patients whose primary care clinician received feedback from the follow-up care clinician within 6 months of the date that referral for follow-up care was made
Numerator Exclusions	Not applicable
Denominator Exceptions	Patients who were referred for follow-up services but did not continue care in the medical home where diagnosed
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

- **Initial Population =**
  - AND: Intersection of:
    - "Patient Characteristic: birth date (start datetime >= 6 month(s))" starts before start of "Measurement Period"
    - "Patient Characteristic: birth date (stop 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 (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Brigance Screens-II, birth - 90 months (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Child Development Inventory (CDI), 18 months - 6 years (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months (result = 1)"
    - - Union of:
      - - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years (result = 1)"
    - - Union of:
      - - "Communication: From Patient to Provider: indication from the family that there was concern about child's development"
  - - Intersection of:
    - - "Encounter, Recommended: Referral for Follow-up Testing"
- **Denominator =**
  - AND: Initial Population
  - AND: Intersection of:
    - - "Patient Characteristic: birth date (start datetime >= 6 month(s))" starts before start of "Measurement Period"
    - - "Patient Characteristic: birth date (stop 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 (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Brigance Screens-II, birth - 90 months (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Child Development Inventory (CDI), 18 months - 6 years (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months (result = 1)"
      - - Union of:
        - - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years (result = 1)"
      - - Union of:
        - - "Communication: From Patient to Provider: indication from the family that there was concern about child's development"
    - - Intersection of:
      - - "Encounter, Recommended: Referral for Follow-up Testing"
- **Denominator Exclusions =**
- **Numerator =**
  - AND: Intersection of:
    - - Union of:

- "Encounter, Recommended: Part C, Early Intervention Program"
          - Union of:
            - "Encounter, Recommended: Referral for Follow-up Testing"
          - Union of:
            - "Encounter, Recommended: Home Visiting for 0-5"
          - Union of:
            - "Encounter, Recommended: Physical Therapist"
          - Union of:
            - "Encounter, Recommended: Occupational Therapist"
          - Union of:
            - "Encounter, Recommended: Speech/Language Pathologist"
          - Union of:
            - "Encounter, Recommended: Medical Home Clinician Internal"
          - Union of:
            - "Encounter, Recommended: Specialty Clinician External"
          - Union of:
            - "Encounter, Recommended: Early Head Start"
          - Union of:
            - "Encounter, Recommended: Network Care Manager"
          - Union of:
            - "Encounter, Recommended: Family-to-family Support"
          - Union of:
            - "Encounter, Recommended: Hearing and Vision Specialists"
          - Union of:
            - "Encounter, Recommended: Mental Health Specialist"
          - Intersection of:
            - "Communication: From Provider to Provider: Feedback from a referral for developmental testing to a follow-up care clinician received by primary care clinician (stop datetime <= 6 month(s))" ends before end of "Encounter, Recommended: Referral for Follow-up Testing"
- **Numerator Exclusions =**
- **Denominator Exceptions =**
    - OR: Intersection of:
        - Intersection of:
            - "Patient Characteristic: birth date (start datetime >= 6 month(s))" starts before start of "Measurement Period"
            - "Patient Characteristic: birth date (stop 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 (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Battelle Developmental Inventory Screening Tool (BDI-ST), birth - 95 months (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Bayley Infant Neuro-developmental Screen (BINS), 3 months - 2 years (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Brigance Screens-II, birth - 90 months (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Child Development Inventory (CDI), 18 months - 6 years (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Child Development Review-Parent Questionnaire (CDR-PQ), 18 months - 5 years (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Infant Development Inventory, birth - 18 months (result = 1)"
            - Union of:
                - "Diagnostic Study, Performed: Parents' Evaluation of Developmental Status (PEDS), birth - 8 years (result = 1)"
            - Union of:
                - "Communication: From Patient to Provider: indication from the family that there was concern about child's development"
        - Intersection of:
            - "Encounter, Recommended: Referral for Follow-up Testing"
        - starts before or concurrent with start of "Patient Care Experience: Referred for follow-up services but did not continue care in the medical home where diagnosed"
- **Stratification =**

- None

Data Criteria (QDM Variables)

- None

Data criteria (QDM Data Elements)

- "Communication: From Patient to Provider: indication from the family that there was concern about child's development" using "indication from the family that there was concern about child's development User Defined QDM Value Set (1.1.1.1)"
- "Communication: From Provider to Provider: Feedback from a referral for developmental testing to a follow-up care clinician received by primary care clinician" using "Feedback from a referral for developmental testing to a follow-up care clinician received by primary care clinician 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)"
- "Encounter, Recommended: Early Head Start" using "Early Head Start User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Family-to-family Support" using "Family-to-family Support User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Hearing and Vision Specialists" using "Hearing and Vision Specialists User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Home Visiting for 0-5" using "Home Visiting for 0-5 User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Medical Home Clinician Internal" using "Medical Home Clinician Internal User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Mental Health Specialist" using "Mental Health Specialist User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Network Care Manager" using "Network Care Manager User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Occupational Therapist" using "Occupational Therapist User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Part C, Early Intervention Program" using "Part C, Early Intervention Program User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Physical Therapist" using "Physical Therapist User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Referral for Follow-up Testing" using "Referral for Follow-up Testing User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Specialty Clinician External" using "Specialty Clinician External User Defined QDM Value Set (1.1.1.1)"
- "Encounter, Recommended: Speech/Language Pathologist" using "Speech/Language Pathologist User Defined QDM Value Set (1.1.1.1)"
- "Patient Care Experience: Referred for follow-up services but did not continue care in the medical home where diagnosed" using "Referred for follow-up services but did not continue care in the medical home where diagnosed User Defined QDM Value Set (1.1.1.1)"
- "Patient Characteristic: birth date" using "birth date LOINC Value Set (2.16.840.1.113883.3.560.100.4)"

Supplemental Data Elements

- "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

- "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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