eMeasure Title	**Preventive Care and Screening: Influenza Immunization**

eMeasure Identifier (Measure Authoring Tool)	147	**eMeasure Version number**	5.0.000
NQF Number	0041	**GUID**	a244aa29-7d11-4616-888a-86e376bfcc6f

Measurement Period	January 1, 20XX through December 31, 20XX
Measure Steward	American Medical Association-convened Physician Consortium for Performance Improvement(R) (AMA-PCPI)
Measure Developer	American Medical Association-convened Physician Consortium for Performance Improvement(R) (AMA-PCPI)
Endorsed By	National Quality Forum
Description	Percentage of patients aged 6 months and older seen for a visit between October 1 and March 31 who received an influenza immunization OR who reported previous receipt of an influenza immunization
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Measure Scoring	Proportion
Measure Type	Process
Stratification	None
Risk Adjustment	None
Rate Aggregation	None
Rationale	Annual influenza vaccination is the most effective method for preventing influenza virus infection and its complications. Influenza vaccine is recommended for all persons aged >=6 months who do not have contraindications to vaccination.
Clinical Recommendation Statement	Routine annual influenza vaccination is recommended for all persons aged >=6 months who do not have contraindications. Vaccination optimally should occur before onset of influenza activity in the community. Health care providers should offer vaccination soon after vaccine becomes available (by October, if possible). Vaccination should be offered as long as influenza viruses are circulating. (CDC/ACIP, 2014)
Improvement Notation	Higher score indicates better quality
Reference	Centers for Disease Control and Prevention (CDC). Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP) - United States, 2014-2015. MMWR, August 15, 2014; 63(327):691-697. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6332a3.htm. Accessed November 26, 2014.
Definition	Previous Receipt - receipt of the current season's influenza immunization from another provider OR from same provider prior to the visit to which the measure is applied (typically, prior vaccination would include influenza vaccine given since August 1st)
Guidance	The timeframe for the visit during the "Encounter, Performed: Encounter-Influenza" or "Procedure, Performed: Peritoneal Dialysis" or "Procedure, Performed: Hemodialysis" in the Population Criteria-Denominator, refers to the influenza season defined by the measure: October through March (October 1 for the year prior to the start of the

	reporting period through March 31 during the reporting period). The "Encounter-Influenza" Grouping OID detailed in the data criteria section below is comprised of several individual OIDs of different encounter types. The individual OIDs are included in the value set and should be reviewed to determine that an applicable visit occurred during the timeframe for "Encounter, Performed: Encounter-Influenza" as specified in the denominator. To enable reporting of this measure at the close of the reporting period, this measure will only assess the influenza season that ends in March of the reporting period. The subsequent influenza season (ending March of the following year) will be measured and reported in the following year. To account for the majority of reporting years' appropriate flu season duration, the measure logic will look at the first 89 days of the measurement period for the appropriate criteria and actions to be present/performed (January 1 through March 31). The measure developer believes it is best to keep the logic as static as possible from one reporting year to the next. Therefore, during leap years, only encounters that occur through March 30 will be counted in the denominator.
Transmission Format	TBD
Initial Population	All patients aged 6 months and older seen for at least two visits or at least one preventive visit during the measurement period
Denominator	Equals Initial Population and seen for a visit between October 1 and March 31
Denominator Exclusions	None
Numerator	Patients who received an influenza immunization OR who reported previous receipt of an influenza immunization
Numerator Exclusions	Not Applicable
Denominator Exceptions	Documentation of medical reason(s) for not receiving influenza immunization (eg, patient allergy, other medical reasons) Documentation of patient reason(s) for not receiving influenza immunization (eg, patient declined, other patient reasons) Documentation of system reason(s) for not receiving influenza immunization (eg, vaccine not available, other system reasons)
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 sex.

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Population Criteria

- **Initial Population =**
  - AND: Age >= 6 month(s) at: "Measurement Period"
  - AND:
    - OR: Count >= 2 of: Union of:
      - "Encounter, Performed: Office Visit"
      - "Encounter, Performed: Outpatient Consultation"
      - "Encounter, Performed: Care Services in Long-Term Residential Facility"
      - "Encounter, Performed: Home Healthcare Services"
      - "Encounter, Performed: Patient Provider Interaction"
      - during "Measurement Period"
    - OR: Count >= 1 of: Union of:
      - "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17"
      - "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up"
      - "Encounter, Performed: Preventive Care Services-Individual Counseling"
      - "Encounter, Performed: Preventive Care Services - Group Counseling"
      - "Encounter, Performed: Preventive Care Services - Other"

- - - "Encounter, Performed: Discharge Services - Nursing Facility"
    - "Encounter, Performed: Nursing Facility Visit"
    - "Encounter, Performed: Annual Wellness Visit"
    - "Procedure, Performed: Peritoneal Dialysis"
    - "Procedure, Performed: Hemodialysis"
    - "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17"
    - "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up"
    - "Encounter, Performed: Face-to-Face Interaction"
    - during "Measurement Period"
- **Denominator =**
  - AND: Initial Population
  - AND:
    - OR: "Encounter, Performed: Encounter-Influenza" satisfies any
      - <= 92 day(s) starts before or concurrent with start of "Measurement Period"
      - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
    - OR: "Procedure, Performed: Hemodialysis" satisfies any
      - <= 92 day(s) starts before or concurrent with start of "Measurement Period"
      - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
    - OR: "Procedure, Performed: Peritoneal Dialysis" satisfies any
      - <= 92 day(s) starts before or concurrent with start of "Measurement Period"
      - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
- **Denominator Exclusions =**
  - None
- **Numerator =**
  - AND:
    - OR: "Procedure, Performed: Influenza Vaccination" satisfies any
      - <= 153 day(s) starts before or concurrent with start of "Measurement Period"
      - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
    - OR: "Medication, Administered: Influenza Vaccine" satisfies any
      - <= 153 day(s) starts before or concurrent with start of "Measurement Period"
      - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
    - OR: "Communication: From Patient to Provider: Previous Receipt of Influenza Vaccine" satisfies any
      - <= 153 day(s) starts before or concurrent with start of "Measurement Period"
      - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
- **Numerator Exclusions =**
  - None
- **Denominator Exceptions =**
  - OR: Union of:
    - "Communication: From Patient to Provider: Influenza Vaccination Declined"
    - "Procedure, Performed not done: Medical Reason" for "Influenza Vaccination"
    - "Procedure, Performed not done: Patient Reason" for "Influenza Vaccination"
    - "Procedure, Performed not done: System Reason" for "Influenza Vaccination"
    - "Medication, Administered not done: Medical Reason" for "Influenza Vaccine"
    - "Medication, Administered not done: Patient Reason" for "Influenza Vaccine"
    - "Medication, Administered not done: System Reason" for "Influenza Vaccine"
    - <= 153 day(s) starts before or concurrent with start of "Measurement Period"
  - OR: Union of:
    - "Communication: From Patient to Provider: Influenza Vaccination Declined"
    - "Procedure, Performed not done: Medical Reason" for "Influenza Vaccination"
    - "Procedure, Performed not done: Patient Reason" for "Influenza Vaccination"
    - "Procedure, Performed not done: System Reason" for "Influenza Vaccination"
    - "Medication, Administered not done: Medical Reason" for "Influenza Vaccine"
    - "Medication, Administered not done: Patient Reason" for "Influenza Vaccine"
    - "Medication, Administered not done: System Reason" for "Influenza Vaccine"
    - <= 89 day(s) starts after or concurrent with start of "Measurement Period"
  - OR:
    - AND: "Occurrence A of Diagnosis, Active: Allergy to Eggs" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis, Active: Allergy to Eggs" > 89 day(s) starts after start of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis, Active: Allergy to Eggs" <= 89 day(s) ends after start of "Measurement Period"
  - OR:
    - AND: "Occurrence A of Diagnosis, Active: Allergy to Influenza Vaccine" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis, Active: Allergy to Influenza Vaccine" > 89 day(s) starts after start of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis, Active: Allergy to Influenza Vaccine" <= 89 day(s) ends after start of "Measurement Period"
  - OR:
    - AND: "Occurrence A of Diagnosis, Active: Intolerance to Influenza Vaccine" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis, Active: Intolerance to Influenza Vaccine" > 89 day(s) starts after start of "Measurement Period"

- AND NOT: "Occurrence A of Diagnosis, Active: Intolerance to Influenza Vaccine" <= 89 day(s) ends after start of "Measurement Period"
  - OR:
    - AND: "Occurrence A of Procedure, Intolerance: Influenza Vaccination" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Procedure, Intolerance: Influenza Vaccination" > 89 day(s) starts after start of "Measurement Period"
    - AND NOT: "Occurrence A of Procedure, Intolerance: Influenza Vaccination" <= 89 day(s) ends after start of "Measurement Period"
  - OR:
    - AND: "Occurrence A of Medication, Intolerance: Influenza Vaccine" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Medication, Intolerance: Influenza Vaccine" > 89 day(s) starts after start of "Measurement Period"
    - AND NOT: "Occurrence A of Medication, Intolerance: Influenza Vaccine" <= 89 day(s) ends after start of "Measurement Period"
  - OR:
    - AND: "Occurrence A of Medication, Allergy: Influenza Vaccine" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Medication, Allergy: Influenza Vaccine" > 89 day(s) starts after start of "Measurement Period"
    - AND NOT: "Occurrence A of Medication, Allergy: Influenza Vaccine" <= 89 day(s) ends after start of "Measurement Period"
- **Stratification =**
  - None

Data Criteria (QDM Variables)

- None

Data Criteria (QDM Data Elements)

- "Communication: From Patient to Provider: Influenza Vaccination Declined" using "Influenza Vaccination Declined Grouping Value Set (2.16.840.1.113883.3.526.3.1255)"
- "Communication: From Patient to Provider: Previous Receipt of Influenza Vaccine" using "Previous Receipt of Influenza Vaccine Grouping Value Set (2.16.840.1.113883.3.526.3.1185)"
- "Diagnosis, Active: Allergy to Eggs" using "Allergy to Eggs Grouping Value Set (2.16.840.1.113883.3.526.3.1253)"
- "Diagnosis, Active: Allergy to Influenza Vaccine" using "Allergy to Influenza Vaccine Grouping Value Set (2.16.840.1.113883.3.526.3.1256)"
- "Diagnosis, Active: Intolerance to Influenza Vaccine" using "Intolerance to Influenza Vaccine Grouping Value Set (2.16.840.1.113883.3.526.3.1257)"
- "Encounter, Performed: Annual Wellness Visit" using "Annual Wellness Visit Grouping Value Set (2.16.840.1.113883.3.526.3.1240)"
- "Encounter, Performed: Care Services in Long-Term Residential Facility" using "Care Services in Long-Term Residential Facility Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1014)"
- "Encounter, Performed: Discharge Services - Nursing Facility" using "Discharge Services - Nursing Facility Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1013)"
- "Encounter, Performed: Encounter-Influenza" using "Encounter-Influenza Grouping Value Set (2.16.840.1.113883.3.526.3.1252)"
- "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: Home Healthcare Services" using "Home Healthcare Services Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1016)"
- "Encounter, Performed: Nursing Facility Visit" using "Nursing Facility Visit Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1012)"
- "Encounter, Performed: Office Visit" using "Office Visit Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Outpatient Consultation" using "Outpatient Consultation Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1008)"
- "Encounter, Performed: Patient Provider Interaction" using "Patient Provider Interaction Grouping Value Set (2.16.840.1.113883.3.526.3.1012)"
- "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 Services - Established Office Visit, 18 and Up" using "Preventive Care Services - Established Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1025)"
- "Encounter, Performed: Preventive Care Services - Group Counseling" using "Preventive Care Services - Group Counseling Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1027)"
- "Encounter, Performed: Preventive Care Services - Other" using "Preventive Care Services - Other Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1030)"
- "Encounter, Performed: Preventive Care Services-Individual Counseling" using "Preventive Care Services-Individual Counseling Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1026)"
- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" using "Preventive Care Services-Initial Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1023)"
- "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)"
- "Medication, Administered: Influenza Vaccine" using "Influenza Vaccine Grouping Value Set (2.16.840.1.113883.3.526.3.1254)"
- "Medication, Administered not done: Medical Reason" using "Medical Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1007)"
- "Medication, Administered not done: Patient Reason" using "Patient Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1008)"
- "Medication, Administered not done: System Reason" using "System Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1009)"
- "Medication, Allergy: Influenza Vaccine" using "Influenza Vaccine Grouping Value Set (2.16.840.1.113883.3.526.3.1254)"
- "Medication, Intolerance: Influenza Vaccine" using "Influenza Vaccine Grouping Value Set (2.16.840.1.113883.3.526.3.1254)"
- "Procedure, Intolerance: Influenza Vaccination" using "Influenza Vaccination Grouping Value Set (2.16.840.1.113883.3.526.3.402)"
- "Procedure, Performed: Hemodialysis" using "Hemodialysis Grouping Value Set (2.16.840.1.113883.3.526.3.1083)"
- "Procedure, Performed: Influenza Vaccination" using "Influenza Vaccination Grouping Value Set (2.16.840.1.113883.3.526.3.402)"
- "Procedure, Performed: Peritoneal Dialysis" using "Peritoneal Dialysis Grouping Value Set (2.16.840.1.113883.3.526.3.1084)"
- "Procedure, Performed not done: Medical Reason" using "Medical Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1007)"
- "Procedure, Performed not done: Patient Reason" using "Patient Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1008)"
- "Procedure, Performed not done: System Reason" using "System Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1009)"

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 AdministrativeGender Value Set (2.16.840.1.113762.1.4.1)"

Risk Adjustment Variables

- None

Measure Set	None