Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents

<table>
<thead>
<tr>
<th>eMeasure Title</th>
<th>Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents</th>
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<tbody>
<tr>
<td>eMeasure Identifier (Measure Authoring Tool)</td>
<td>155</td>
</tr>
<tr>
<td>eMeasure Version number</td>
<td>6.1.000</td>
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<tr>
<td>NQF Number</td>
<td>0024</td>
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<tr>
<td>GUID</td>
<td>0b63f730-25d6-4248-b11f-8c09c66a04eb</td>
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<tr>
<td>Measurement Period</td>
<td>January 1, 20XX through December 31, 20XX</td>
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<tr>
<td>Measure Steward</td>
<td>National Committee for Quality Assurance</td>
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<td>Measure Developer</td>
<td>National Committee for Quality Assurance</td>
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<tr>
<td>Endorsed By</td>
<td>National Quality Forum</td>
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</tbody>
</table>
| Description | Percentage of patients 3-17 years of age who had an outpatient visit with a Primary Care Physician (PCP) or Obstetrician/Gynecologist (OB/GYN) and who had evidence of the following during the measurement period. Three rates are reported. 
- Percentage of patients with height, weight, and body mass index (BMI) percentile documentation 
- Percentage of patients with counseling for nutrition 
- Percentage of patients with counseling for physical activity |
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| Measure Scoring | Proportion |
| Measure Type | Process |
| Stratification | Report a total score, and each of the following strata: 
Stratum 1 - Patients age 3-11 
Stratum 2 - Patients age 12-17 |
| Risk Adjustment | None |
| Rate Aggregation | None |
| Rationale | One of the most important developments in pediatrics in the past two decades has been the emergence of a new chronic disease: obesity in childhood and adolescence. The rapidly increasing prevalence of obesity among children is one of the most challenging dilemmas currently facing pediatricians. National Health and Nutrition Examination Survey (NHANES) data from Cycle II (1976-1980) compared with data from Cycle III (1988-1994) documents an increase in the prevalence of obesity in all age, ethnic, and gender groups. NHANES data collected from 1999-2000 revealed a continued increase in the number of obese children. In that data collection, the prevalence of obesity (body mass |
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In addition to the growing prevalence of obesity in children and adolescents, the number of overweight children at risk of becoming obese is also of great concern. Evidence suggests that overweight children and adolescents are more likely to become obese as adults. For example, one study found that approximately 80 percent of children who were overweight at age 10-15 years were obese adults at age 25 years (Whitaker et al. 1997). Another study found that 25 percent of obese adults were overweight as children. The latter study also found that if overweight begins before 8 years of age, obesity in adulthood is likely to be more severe (Freedman et al. 2001).

Clinical Recommendation Statement

- **U.S. Preventive Services Task Force (2005)** - Evidence is insufficient to recommend for or against routine screening for overweight in children and adolescents as a means to prevent adverse health outcomes (I rating).
- **American Academy of Pediatrics (2004)** - BMI should be calculated from the height and weight, and the BMI percentile should be calculated.
- **American Medical Association (AMA), Centers for Disease Control and Prevention (CDC), Health Resources and Services Administration (HRSA) (2007)** - At minimum, a yearly assessment of weight status in all children. Include calculation of height, weight (measured appropriately), and body mass index (BMI) for age and plotting of those measures on standard growth charts.
- **The AAP and the American College of Clinical Endocrinology (ACCE) (Dorsey 2005)** - Screen children for obesity using BMI and examine overweight children for obesity-related diseases.
- **CDC (Baker 2005)** - Using the percentile BMI for age and sex as the most appropriate and easily available method to screen for childhood overweight or at risk for overweight.
- **Bright Futures (AAP) (Hagan 2008)** - Calculate BMI at every visit.

<table>
<thead>
<tr>
<th>Improvement Notation</th>
<th>Higher score indicates better quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference</td>
<td>Pediatrics 114(2 Suppl):S55–S76.</td>
</tr>
<tr>
<td>Definition</td>
<td>None</td>
</tr>
<tr>
<td>Guidance</td>
<td>The visit must be performed by a PCP or OB/GYN. Because BMI norms for youth vary with age and sex, this measure evaluates whether BMI percentile is assessed rather than an absolute BMI value.</td>
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<tr>
<td>Transmission Format</td>
<td>TBD</td>
</tr>
<tr>
<td>Initial Population</td>
<td>Patients 3-17 years of age with at least one outpatient visit with a primary care physician (PCP) or an obstetrician/gynecologist (OB/GYN) during the measurement period</td>
</tr>
<tr>
<td>Denominator Equals Initial Population</td>
<td></td>
</tr>
<tr>
<td>Denominator Exclusions</td>
<td>Patients who have a diagnosis of pregnancy during the measurement period. Exclude patients who were in hospice care during the measurement year.</td>
</tr>
</tbody>
</table>
Numerator 1: Patients who had a height, weight and body mass index (BMI) percentile recorded during the measurement period
Numerator 2: Patients who had counseling for nutrition during a visit that occurs during the measurement period
Numerator 3: Patients who had counseling for physical activity during a visit that occurs during the measurement period

Numerator Exclusions
Not Applicable

Denominator Exceptions
None

Supplemental Data Elements
For every patient evaluated by this measure also identify payer, race, ethnicity and sex

Table of Contents
- Population Criteria
- Data Criteria (QDM Variables)
- Data Criteria (QDM Data Elements)
- Supplemental Data Elements
- Risk Adjustment Variables

Population Criteria

----- Population Criteria 1 -----

- Initial Population
  - AND: Age >= 3 year(s) at: "Measurement Period"
  - AND: Age < 17 year(s) at: "Measurement Period"
  - AND: $OutpatientVisits

- Denominator
  - AND: Initial Population

- Denominator Exclusions
  - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Home for Hospice Care)" ends during "Measurement Period"
  - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Health Care Facility for Hospice Care)" ends during "Measurement Period"
  - OR: Union of:
    - "Intervention, Order: Hospice care ambulatory"
    - "Intervention, Performed: Hospice care ambulatory"
    - overlaps "Measurement Period"
  - OR: "Diagnosis: Pregnancy" overlaps "Measurement Period"

- Numerator
  - AND: "Physical Exam, Performed: BMI percentile (result)" during "Measurement Period"
  - AND: "Physical Exam, Performed: Height (result)" during "Measurement Period"
  - AND: "Physical Exam, Performed: Weight (result)" during "Measurement Period"

- Numerator Exclusions
  - None

- Denominator Exceptions
  - None

- Stratifications
  - Stratification 1
    - AND: Age >= 3 year(s) at: "Measurement Period"
    - AND: Age < 11 year(s) at: "Measurement Period"
  - Stratification 2
    - AND: Age >= 11 year(s) at: "Measurement Period"
    - AND: Age < 17 year(s) at: "Measurement Period"

----- Population Criteria 2 -----

- Initial Population
  - AND: Age >= 3 year(s) at: "Measurement Period"
  - AND: Age < 17 year(s) at: "Measurement Period"
  - AND: $OutpatientVisits

- Denominator
  - AND: Initial Population

- Denominator Exclusions
  - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Home for Hospice Care)" ends during "Measurement Period"
  - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Health Care Facility for Hospice Care)" ends during "Measurement Period"
  - OR: Union of:
    - "Intervention, Order: Hospice care ambulatory"
Data Criteria (QDM Variables)

- $OutpatientVisits =
  - Union of:
    - "Encounter, Performed: Face-to-Face Interaction"
    - "Encounter, Performed: Office Visit"
    - "Encounter, Performed: Preventive Care Services-Individual Counseling"
    - "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17"
    - "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17"
    - "Encounter, Performed: Preventive Care Services - Group Counseling"
    - "Encounter, Performed: Home Healthcare Services"
    - during "Measurement Period"

Data Criteria (QDM Data Elements)

- "Diagnosis: Pregnancy" using "Pregnancy Grouping Value Set (2.16.840.1.113883.3.526.3.378)"
- "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Home for Hospice Care)" ends during "Measurement Period"
- "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Health Care Facility for Hospice Care)" ends during "Measurement Period"
- "Intervention, Order: Hospice care ambulatory" overlaps "Measurement Period"
- "Diagnosis: Pregnancy" overlaps "Measurement Period"
Group Counseling Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1027)
- "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- 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)"
- "Intervention, Order: Hospice care ambulatory" using "Hospice care ambulatory SNOMEDCT Value Set (2.16.840.1.113762.1.4.1.1108.15)"
- "Intervention, Performed: Counseling for Physical Activity" using "Counseling for Physical Activity Grouping Value Set (2.16.840.1.113883.3.464.1003.118.12.1035)"
- "Intervention, Performed: Hospice care ambulatory" using "Hospice care ambulatory SNOMEDCT Value Set (2.16.840.1.113762.1.4.1.1108.15)"
- "Physical Exam, Performed: BMI percentile" using "BMI percentile Grouping Value Set (2.16.840.1.113883.3.464.1003.121.12.1012)"
- "Physical Exam, Performed: Height" using "Height Grouping Value Set (2.16.840.1.113883.3.464.1003.121.12.1014)"
- "Physical Exam, Performed: Weight" using "Weight Grouping Value Set (2.16.840.1.113883.3.464.1003.121.12.1015)"
- "Physical Exam, Performed: BMI percentile" using "BMI percentile Grouping Value Set (2.16.840.1.113883.3.464.1003.121.12.1012)"
- "Physical Exam, Performed: Height" using "Height Grouping Value Set (2.16.840.1.113883.3.464.1003.121.12.1014)"
- "Physical Exam, Performed: Weight" using "Weight Grouping Value Set (2.16.840.1.113883.3.464.1003.121.12.1015)"
- "Discharge status: Discharged to Health Care Facility for Hospice Care" using "Discharged to Health Care Facility for Hospice Care SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.207)"
- "Discharge status: Discharged to Home for Hospice Care" using "Discharged to Home for Hospice Care SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.209)"

**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 |