

Weight Assessment and Counseling for Nutrition and Physical Activity for Children/Adolescents			
eCQM Identifier (Measure Tool)	155	eCQM Version Number	13.0.000
CBE Number	Not Applicable	GUID	0b63f730-2506-4248-b11f-8c09c66a04eb
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	National Committee for Quality Assurance		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	None		
Description	<p>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/or nutrition counseling for the following during the measurement period.</p> <ul style="list-style-type: none"> <li>- Percentage of patients with height, weight, and body mass index (BMI) percentile documentation</li> <li>- Percentage of patients with counseling for nutrition</li> <li>- Percentage of patients with counseling for physical activity</li> </ul>		
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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 years at the end of the measurement period Stratum 2 - Patients age 12-17 years at the end of the measurement period		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	<p>Over the last four decades, childhood obesity has more than tripled in children and adolescents 2 to 19 years of age (from a rate of approximately 5 percent to 18.5 percent) (Fryar, Carroll, &amp; Ogden, 2014; Hales et al., 2017). Non-Hispanic black and Hispanic youth are more likely to be obese than their non-Hispanic white and non-Hispanic Asian counterparts. In 2015-2016, approximately 22 percent of non-Hispanic black and 26 percent of Hispanic youth were obese compared to approximately 14 percent of non-Hispanic white and 11 percent of non-Hispanic Asian youth (Hales et al., 2017).</p> <p>Childhood obesity has both immediate and long-term effects on health and well-being. Children who are obese have higher rates of physical health conditions, such as risk factors for cardiovascular disease (like high blood pressure and high cholesterol), type 2 diabetes, asthma, sleep apnea, and joint problems. There is also a correlation between childhood obesity and mental health conditions, such as anxiety and depression (Centers for Disease Control and Prevention [CDC], 2016). In addition, children who are obese are more likely to be obese as adults and are therefore at risk for adult health problems, such as heart disease, type 2 diabetes, and several types of cancer (CDC, 2016).</p> <p>The direct medical costs associated with childhood obesity total \$1.32 billion per year (Ward et al., 2021).</p> <p>Because obesity can become a lifelong health issue, it is important to screen for obesity in children and adolescents, and to provide interventions that promote weight loss (U.S. Preventive Services Task Force, 2017).</p>		
Clinical Recommendation Statement	<p>U.S. Preventive Services Task Force (2017) – The Task Force recommends that clinicians screen for obesity in children and adolescents 6 years and older and offer or refer them to comprehensive, intensive behavioral interventions to promote improvements in weight status. (B recommendation)</p> <p>American Academy of Pediatrics – Bright Futures (Hagan, Shaw, &amp; Duncan, 2017) - Plot and assess BMI percentiles routinely for early recognition of overweight and obesity. - Assess barriers to healthy eating and physical activity. - Provide anticipatory guidance for nutrition and physical activity.</p>		
Improvement Notation	Higher score indicates better quality		
Reference	Reference Type: CITATION Reference Text: "Centers for Disease Control and Prevention. (2016). Childhood Obesity Causes & Consequences. Retrieved from https://www.cdc.gov/obesity/childhood/causes.html"		
Reference	Reference Type: CITATION Reference Text: "Ward, Z. J., Bleich, S. N., Long, M. W., & Gortmaker, S. L. (2021). Association of body mass index with health care expenditures in the United States by age and sex. PLOS ONE, 16(3), e0247307. https://doi.org/10.1371/journal.pone.0247307"		
Reference	Reference Type: CITATION Reference Text: "Fryar, C. D., Carroll, M. D., & Ogden, C. L. (2014). Prevalence of Overweight and Obesity Among Children and Adolescents: United States, 1963-1965 through 2011-2012. Health E-Stats. Retrieved from https://www.cdc.gov/nchs/data/hestata/obesity_child_11_12/obesity_child_11_12.htm"		
Reference	Reference Type: CITATION Reference Text: "Hagan, J. F., Shaw, J. S., & Duncan, P. M. (eds.). (2017). Bright Futures: Guidelines for Health Supervision of Infants, Children, and Adolescents, 4th ed. Elk Grove Village, IL: American Academy of Pediatrics."		
Reference	Reference Type: CITATION Reference Text: "Hales, C.M., Carroll, M.D., Fryar, C.D., et al. (2017). Prevalence of Obesity Among Adults and Youth: United States, 2015-2016. NCHS Data Brief. Retrieved from https://www.cdc.gov/nchs/data/databriefs/db288.pdf"		
Reference	Reference Type: CITATION Reference Text: "U.S. Preventive Services Task Force. (2017). Screening and interventions for overweight in children and adolescents: Recommendation statement. Rockville, MD: Agency for Healthcare Research and Quality. Retrieved from https://www.uspreventiveservicestaskforce.org/Page/Document/UpdateSummaryFinal/obesity-in-children-and-adolescents-screening17-05-1&sc=obesity"		
Definition	None		
Guidance	<p>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, rather than an absolute BMI value, is assessed.</p> <p>This eCQM is a patient-based measure.</p> <p>This version of the eCQM uses QDM version 5.6. Please refer to the eCQM resource center (https://ecqm.healthit.gov/qdm) for more information on the QDM.</p>		
Transmission Format	TBD		
Initial Population	Patients 3-17 years of age by the end of the measurement period, with at least one outpatient visit with a primary care physician (PCP) or an obstetrician/gynecologist (OB/GYN) during the measurement period		
Denominator	Equals Initial Population		
Denominator Exclusions	Exclude patients who are in hospice care for any part of the measurement period. Patients who have a diagnosis of pregnancy during the measurement period.		
Numerator	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 the measurement period. Numerator 3: Patients who had counseling for physical activity 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		

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**Population Criteria**

**Population Criteria 1**

**Initial Population**

AgeInYearsAt(date from end of "Measurement Period") in Interval[3, 17] and exists ("Qualifying Encounters")

**Denominator**

"Initial Population"

**Denominator Exclusions**

Hospice."Has Hospice Services" or exists ("Pregnancy Diagnosis Which Overlaps Measurement Period")

**Numerator**

exists ("BMI Percentile in Measurement Period") and exists ("Height in Measurement Period") and exists ("Weight in Measurement Period")

**Numerator Exclusions**

None

**Denominator Exceptions**

None

**Stratification 1**

AgeInYearsAt(date from end of "Measurement Period") in Interval[3, 11]

**Stratification 2**

AgeInYearsAt(date from end of "Measurement Period") in Interval[12, 17]

**Population Criteria 2**

**Initial Population**

AgeInYearsAt(date from end of "Measurement Period") in Interval[3, 17] and exists ("Qualifying Encounters")

**Denominator**

"Initial Population"

**Denominator Exclusions**

Hospice."Has Hospice Services" or exists ("Pregnancy Diagnosis Which Overlaps Measurement Period")

**Numerator**

exists ("Intervention, Performed": "Counseling for Nutrition") NutritionCounseling where Global."NormalzeInterval" ( NutritionCounseling.relevantDatetime, NutritionCounseling.relevantPeriod ) during day of "Measurement Period"

**Numerator Exclusions**

None

**Denominator Exceptions**

None

**Stratification 1**

AgeInYearsAt(date from end of "Measurement Period") in Interval[3, 11]

**Stratification 2**

AgeInYearsAt(date from end of "Measurement Period") in Interval[12, 17]

**Population Criteria 3**

**Initial Population**

AgeInYearsAt(date from end of "Measurement Period") in Interval[3, 17] and exists ("Qualifying Encounters")

**Denominator**

"Initial Population"

**Denominator Exclusions**

Hospice."Has Hospice Services" or exists ("Pregnancy Diagnosis Which Overlaps Measurement Period")

**Numerator**

exists ("Intervention, Performed": "Counseling for Physical Activity") ActivityCounseling where Global."NormalzeInterval" ( ActivityCounseling.relevantDatetime, ActivityCounseling.relevantPeriod ) during day of "Measurement Period"

**Numerator Exclusions**

None

**Denominator Exceptions**

None

**Stratification 1**

AgeInYearsAt(date from end of "Measurement Period") in Interval[3, 11]

**Stratification 2**

AgeInYearsAt(date from end of "Measurement Period") in Interval[12, 17]

**Weight in Measurement Period**

["Physical Exam, Performed": "Weight"] Weight where Global."NormalzeInterval" ( Weight.relevantDatetime, Weight.relevantPeriod ) during day of "Measurement Period" and Weight.result is not null

**Functions**

Global.NormalizeInterval(pointInTime DateTime, periodInterval<DateTime>)

If pointInTime is not null then Interval(pointInTime, pointInTime) else if period is not null then period else null as Interval<DateTime>

**Terminology**

- code "Discharge to healthcare facility for hospice care (procedure)" ["SNOMEDCT Code (428271000124100)"]
- code "Discharge to home for hospice care (procedure)" ["SNOMEDCT Code (428361000124107)"]
- code "Hospice care (Minimum Data Set)" ["LOINC Code (45755-6)"]
- code "Yes (qualifier value)" ["SNOMEDCT Code (37096001)"]
- valueSet "BMI percentile" (2.16.840.1.113883.3.464.1003.121.12.1012)
- valueSet "Counseling for Nutrition" (2.16.840.1.113883.3.464.1003.195.12.1003)
- valueSet "Counseling for Physical Activity" (2.16.840.1.113883.3.464.1003.118.12.1035)
- valueSet "Height" (2.16.840.1.113883.3.464.1003.866.6.307)
- valueSet "Ethnicity" (2.16.840.1.114222.4.11.837)
- valueSet "Encounter" (2.16.840.1.113883.3.464.1003.121.12.1014)
- valueSet "Home Healthcare Services" (2.16.840.1.113883.3.464.1003.101.12.1016)
- valueSet "Hospice Care Ambulatory" (2.16.840.1.113883.3.464.1003.101.12.1080)
- valueSet "Hospice Diagnosis" (2.16.840.1.113883.3.464.1003.1185)
- valueSet "Hospice Encounter" (2.16.840.1.113883.3.464.1003.1003)
- valueSet "Hospice Care Ambulatory" using "Hospice Care Ambulatory" (2.16.840.1.113883.3.464.1003.195.12.1003)
- valueSet "Office Visit" (2.16.840.1.114222.4.11.836)
- valueSet "ONC Administrative Sex" (2.16.840.1.113762.1.4.1)
- valueSet "Preventive Care Services, Initial Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1022)
- valueSet "Preventive Care Services, Established Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1024)
- valueSet "Preventive Care Services, Individual Counseling" (2.16.840.1.113883.3.464.1003.101.12.1026)
- valueSet "Preventive Care Services, Initial Office Visit, 0 to 17" using "Preventive Care Services, Initial Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1022)
- valueSet "Preventive Care Services, Established Office Visit, 0 to 17" using "Preventive Care Services, Established Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1024)
- valueSet "Preventive Care Services, Individual Counseling" using "Preventive Care Services Individual Counseling" (2.16.840.1.113883.3.464.1003.101.12.1026)
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- valueSet "Preventive Care Services, Established Office Visit, 0 to 17" using "Preventive Care Services, Established Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1024)
- valueSet "Preventive Care Services, Individual Counseling" using "Preventive Care Services Individual Counseling" (2.16.840.1.113883.3.464.1003.101.12.1026)
- valueSet "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity" (2.16.840.1.114222.4.11.837)
- valueSet "Patient Characteristic Payer: Payer Type" using "Payer Type" (2.16.840.1.114222.4.11.3591)
- valueSet "Patient Characteristic Race" using "Race" (2.16.840.1.114222.4.11.836)
- valueSet "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex" (2.16.840.1.113762.1.4.1)
- valueSet "Physical Exam, Performed: Height" using "Height" (2.16.840.1.113883.3.464.1003.121.12.1012)
- valueSet "Physical Exam, Performed: Weight" using "Weight" (2.16.840.1.113883.3.464.1003.121.12.1015)

**Supplemental Data Elements**

**SDE Ethnicity**

["Patient Characteristic Ethnicity": "Ethnicity"]

**SDE Payer**

["Patient Characteristic Payer": "Payer Type"]

**SDE Race**

["Patient Characteristic Race": "Race"]

**SDE Sex**

["Patient Characteristic Sex": "ONC Administrative Sex"]

**Risk Adjustment Variables**

None

Measure Set	None
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