

SNOMED CT Observables

October 21, 2019



SNOMED CT observables

- Servings of food
- Energy intake
- Fluid intake

Servings of food

Use: To estimate intake of food servings in one day

Estimated fruit servings intake in 24 hours

Estimated vegetable servings intake in 24 hours

FDA: <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcr/CFRSearch.cfm?fr=101.12>

EU Food Based Dietary Guidelines:
<https://ec.europa.eu/jrc/en/health-knowledge-gateway/promotion-prevention/nutrition/food-based-dietary-guidelines>

FRUIT

Young children
(1-3 years)

125 grams/serving

Adults

140 grams/serving

280 grams/serving
(watermelon)

40 grams/serving
dried fruit

Servings of food

410681005
|Count of
entities
(property)
(qualifier value)|
suggested

Concept Details
Expression Constraint Queries

Concept Details

Summary
Details
Diagram
Expression
Refsets
Members
References

Parents

- ▶ ● Qualifier value (qualifier value)
- ▲ ● Property of measurement (qualifier value)

● **Count of entities (property) (qualifier value)** ☆ 📄

SCTID: 410681005

410681005 | Count of entities (property) (qualifier value) |

en Count of entities (property)

en Count of entities

en Count of entities (property) (qualifier value)

No attributes

Servings of food

Summary

Details

Diagram



Expression




Refsets

Members

References

Parents

- >  Fruit intake (observable entity)
- >  Nutrient intake (observable entity)

 **Estimated intake of fruit servings in 24 hours (observable entity)**  

SCTID: 787758000

787758000 | Estimated intake of fruit servings in 24 hours (observable entity) |

Property → Count of entities (property)

Scale type → Quantitative

Characterizes → Intake process

Process duration → 24 hours

Process output → Fruit

Technique → Estimation technique

Children (0)

No children

Energy intake

Use: To estimate energy intake in one day

Estimated energy intake in 24 hours

Calorie

- SNOMED CT qualifier value of calorie (small c) which defined means the amount of heat it takes to raise 1 g water 1 degree Celsius
- Dietetics professionals use kilocalories (kcal) and kilojoules (kJ), thus energy is a more appropriate concept

Energy intake

LOINC CODE
75298-0

LONG COMMON NAME
Calorie intake 24 hour Estimated

LOINC STATUS
Active

FULLY-SPECIFIED NAME

| | |
|-----------|----------------|
| Component | Calorie intake |
| Property | EngRat |
| Time | 24H |
| System | ^Patient |
| Scale | Qn |
| Method | Estimated |

Additional Names

Short Name Calorie intake 24h Est

Term Description

The patient or client's total estimated amount of energy from caloric intake from all sources, (such as food, beverages, supplements, and via enteral and parenteral routes) for a 24 hour period. The estimated calorie intake is reported retrospectively by the patient or by the dietitian upon inspection of the patient's intake. Caloric intake can be reported in kilogram calorie or kilojoule units. The conversion factor is (1 kilojoule (kJ) = 0.239 kilogram calorie (kcal)). This term was created for, but not limited in use to, the HL7 Implementation Guide for CDA Release 2: Consolidated CDA Templates for Clinical Notes (US Realm) Draft Standard for Trial Use Release 2.1.

Source: Regenstrief LOINC

Fluid intake (observable)

Use: To estimate fluid intake in one day

Estimated fluid intake in 24 hours

Fluid

- 226465004 |Drinks (substance)|
- Fluid content of food
- Fluid content of enteral nutrition solution
- Fluid content of parenteral nutrition (TPN) solution
- 118431008 |Fluid for intravenous administration

- Allergen class (substance)
- Biocide (substance)
- Biological substance (substance)
- Body substance (substance)
- Diagnostic substance (substance)
- Drug or medicament (substance)
- **Edible substance (substance)**
- Material (substance)
- Substance categorized by disposition (substance)
- Substance categorized by hazard characteristics (substance)
- Substance categorized by physical state (substance)
 - Aerosol (substance)
 - Dust (substance)
 - Gaseous substance (substance)
 - Inert matter (substance)
 - **Liquid substance (substance)**
 - Natural form of water (substance)
 - Solid substance (substance)
 - Vapor (substance)
- Substance categorized by structure (substance)
- Substance categorized functionally (substance)

Fluid intake (observable)

Parents

- ▶ ● Substance categorized by physical state (substance)

● Liquid substance (substance) ☆ ↗
SCTID: 33463005
33463005 | Liquid substance (substance) |
en Liquid substance (substance)
en Liquid
en Liquid substance
en Fluid

No attributes

Children (12)

- ▶ ● Body fluid (substance)
- ▶ ● Dialysis fluid (substance)
- ● Eluate (substance)
- ● Fluid for intravenous administration (substance)
- ▶ ● Hot liquid (substance)
- ● Liquid of non-biological origin (substance)
- ● Liquid oxygen (substance)
- ● Molten metal (substance)
- ● Solution (substance)
- ● Soya milk (substance)
- ▶ ● Suspension (substance)
- ● Volatile agent (substance)

Inadequate fluid intake (finding)

Concept Details

Summary | **Details** | Diagram | Expression | Refsets | Members | References

Parents

- ▶ Clinical history and observation findings (finding)
- ▲ Endocrine, nutritional and metabolic finding (finding)
- ▲ Finding of fluid intake (finding)

Finding of insufficient fluid intake (finding) ★ ↗

SCTID: 249481003

249481003 | Finding of insufficient fluid intake (finding) |

- en Poor fluid intake
- en Inadequate fluid intake
- en Insufficient fluid intake - finding
- en Finding of insufficient fluid intake (finding)
- en Insufficient fluid intake
- en Finding of insufficient fluid intake

Interprets → Fluid intake
Has interpretation → Inadequate

Children (2)

- Inadequate oral fluid intake for physiological needs (finding)
- Insufficient intake of food and water co-occurrent and due to self neglect (finding)



Questions?