### Nutrition Assessment Use Case

The purpose of this use case is to describe the process of completing a nutrition assessment and documenting a nutrition diagnosis/problem. (Excerpt from HL7 V3 Diet Order DAM)

Use Case Sequence of Steps

1. Dietitian receives the Dietitian Consultation order.
2. Dietitian collects assessment data to include the following:
   1. Anthropometric data are collected from the EHR system and include, but are not limited to, the patient’s height, weight (current, usual and history of weight change), weight change while in hospital (loss or gain), and body mass index (BMI).
   2. Biochemical data are collected from the EHR system.
   3. Client history is collected from the EHR system to include, but not be limited to, medical diagnoses and medications.
   4. Food history is gathered by direct interviews with patient, family, and staff as well as data within the EHR system and Food and Nutrition Management System (FNMS). These data include, but are not limited to, the diet order, usual eating pattern and food related behaviors, changes in appetite, amounts of food/fluids typically consumed, and amounts of foods/fluids consumed since being admitted.
   5. Nutrition-focused physical findings (observations) are collected from patient observation, staff interviews, and/or the EHR system. This includes physical signs such as the presence of mouth sores and muscle wasting, significant weight loss over a specific period of time.
   6. Comparative standards such as energy and protein calculations to determine nutritional needs may be calculated by the dietitian.
3. A nutrition diagnosis/problem may be identified by the dietitian and documented in the EHR system based on the assessment data collected. The nutrition diagnosis/problem statement includes three components: the (nutrition) problem, the etiology of the problem, and the signs and symptoms of the problem utilizing standard terminology.

This process would be followed by recommendations/interventions, a care plan, other procedures, and/or a referral.

**The outcome of this clinical synthesis leads to the following type of statement:**

* *Inadequate energy intake related to decreased appetite as evidenced by energy consumption less than assessed needs and weight loss of 5 pounds in one week.*
* *Chewing difficulty related to mouth pain from oral sores as evidenced by oral side effects of chemotherapy.*
* *Starvation-related malnutrition related to suboptimal protein and energy intake as evidenced by decreased muscle mass and diminished hand-grip strength.*

These diagnostic statements (such as Starvation-related Malnutrition) are used to:

1. Populate the problem list
2. Lead to a codeable concept that is used for billing