**Malnutrition Case Study - PICU Trauma**

AM is a 9 year old female admitted to the PICU following a motor vehicle accident with injuries including multiple fractures, a liver laceration, and traumatic brain injury. Currently she is intubated and sedated. Enteral feeds via NG tube were initiated within 24 hours of admission.

**Current Anthropometrics:**

Current Weight: 25 kg (z-score -1.22), on day 7 of admission

Height: 137 cm (z-score 0.27)

BMI: 13.3kg/m2 (z-score -2.14)

MUAC: Unable to position correctly to obtain

Usual Weight: 28.2 kg (z-score-0.5)

**Past Medical History:** None

**History Obtained:**

In talking with AM mom she reports that pts weight was stable prior to her accident and that she had good oral intake and was eating normally up until time of accident. She had good energy and was participating in all of her usual activities.

In reviewing her chart, you determine that her feedings are frequently interrupted because of necessary surgical procedures, as a result of this significant NPO time her average daily intake is 550 calories via NG, her ordered feeds are to provide 1200 calories.

*Circle applicable criteria below or indicate “N/A” with an X*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **Mild** | **Moderate** | **Severe** | **N/A** |
| Wt-for-lt z-score | -1 to -1.9 | -2 to -2.9 | -3 to -3.9 |  |
| BMI for age z-score | -1 to -1.9 | -2 to -2.9 | -3 to -3.9 |  |
| Length/Ht for Age z-score |  |  | -3 or less |  |
| MUAC z-score | -1 to -1.9 | -2 to -2.9 | -3 to -3.9 |  |
| Weight gain velocity (<2 yrs) | <75% of norm | <50% of norm | <25% of norm |  |
| Weight loss (2-20 yrs) | 5% UBW | 7.5% UBW | 10% UBW |  |
| Decline in Lt/Ht z-score | Decline of 1 z-score | Decline of 2 z-scores | Decline of 3 z-scores |  |
| Inadequate nutrition intake | 51-75% estimated energy/pro needs | 26-50% estimated energy/pro needs | < 25% estimated energy/pro needs |  |

**Does AM meet criteria for malnutrition?** Yes No

**Etiology:** Acute Chronic

**Illness:** Illness-related Non-illness related

**Severity:** Mild Moderate Severe

**Write a Malnutrition PES statement for AM:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_