

Supplementary Figure S1: ASPEN 2016 Nutrition Assessment Survey

1. What is your PRIMARY role in your hospital/institution as described below?

- Dietitian
- Nurse
- Pharmacist
- Physician
- Nurse Practitioner
- Physician Assistant

2. Which hospital/institution type best describes your PRIMARY practice setting?

- Academic medical center
- Community hospital
- VA or military hospital
- Other _____ what type of other institution? _____

3. What is the size of the hospital/institution where your primary practice is located?

- <100 beds
- 100-250 beds
- 251-500 beds
- >500 beds

4. What is your hospital/institution's zip code? TEXT BOX

5. Do you primarily care for adult patients?

- Yes (If Yes, move to adult question section)
- No

6. Do you primarily care for pediatric or neonatal patients?

- Yes (If Yes, move to pediatric/neonatal question section)
- No

NUTRITION ASSESSMENT– Adult

7. Once a patient is screened, who completes the NUTRITION ASSESSMENT at your hospital/institution?

(Check all that apply)

- Nurses
- Dietitians
- Dietetic technicians
- Physicians
- Pharmacists
- Physician assistants
- Nurse practitioners
- Don't know
- Other (specify in text box)

8. For NUTRITION ASSESSMENT, which of the following specific individual variables do you use? (Check all that apply)

- Usual body weight
- Ideal body weight
- Body mass index
- Triceps skinfold thickness
- Other assessment for fat loss [text box]
- Mid-upper arm muscle circumference
- Other assessment for muscle loss [text box]
- Bioelectrical impedance analysis
- CT guided muscle mass assessment
- Dual X-ray absorptiometry (DEXA)
- Ultrasound
- Check for edema
- Hand grip dynamometry
- Timed chair stand
- Walking assessment
- Activities of daily living
- Skin assessment (vitamin and/or mineral deficiency, pressure ulcer, wound healing)
- Assess for signs and symptoms of vitamin and/or trace element deficiency
- Electrolytes
- Albumin
- Prealbumin
- C-reactive protein
- Vitamin levels
- Trace element levels
- Other (FREE TEXT BOX)

9. What data would you like to collect that is not being collected now?

- Free text box

10. Do you utilize the Academy of Nutrition and Dietetics (AND)/ A.S.P.E.N. Consensus Malnutrition Characteristics for nutrition ASSESSMENT?

- Yes Move to question 11
- No Move to question 12

11. If yes, which of the following AND/A.S.P.E.N. characteristics do you use? (Check all that apply)

- Inadequate intake
- Weight loss
- Evidence of subcutaneous fat loss
- Evidence of muscle loss
- Fluid accumulation
- Diminished hand grip strength

12. If no, which of the following nutrition ASSESSMENT tools do you use?

- Subjective global assessment (SGA)
- Mini-nutrition assessment (MNA)
- A self-developed "in house" tool
- Other (Specify in text box)

NUTRITION ASSESSMENT – Pediatrics/Neonates

7. Once a patient is screened, who completes the NUTRITION ASSESSMENT at your hospital? (Check all that apply)

- Nurses
- Dietitians
- Dietetic technicians
- Physicians
- Pharmacists
- Physician assistants
- Nurse practitioners
- Other
- Don't know

8. For NUTRITION ASSESSMENT, which of the following variables do you use? (Check all that apply)

- Weight for age percentile
- Height for age percentile
- Weight for length/height percentile
- Weight for age z-score
- Head circumference
- Triceps skinfold thickness
- Other measure of fat loss (specify in text box)
- Mid-arm muscle circumference
- Bioelectrical impedance analysis
- Dual X-ray absorptiometry (DEXA)
- CT guided muscle mass assessment
- Other measure of muscle loss (specify in text box)
- Diminished hand grip strength
- Developmental milestones
- Walking assessment, as age appropriate
- Activities of daily living, as age appropriate
- Presence of edema
- Skin assessment (vitamin and/or mineral deficiency, pressure ulcer, wound healing)
- Signs and symptoms of vitamin or trace element deficiency
- Electrolytes
- Albumin
- Prealbumin
- C-reactive protein
- Vitamin levels
- Trace element levels
- Other (specify in text box)

9. What data would you like to collect that is not being collected now?

- Free text box

10. Do you utilize the Academy of Nutrition and Dietetics (AND)/ A.S.P.E.N. Consensus Pediatric Malnutrition Characteristics for nutrition assessment?

- Yes (Go to question 11)
- No (Go to question 12)

11. If yes, which of the following AND/ A.S.P.E.N. characteristics do you use? (Check all that apply)

- Height for age z score
- Weight for length z score
- BMI z-score
- Mid upper arm circumference z score
- Growth velocity
- Deceleration in weight for length (< 2 yrs old) or BMI (> 2 yrs old)
- Weight loss
- Inadequate nutrient intake

12. If no, which of the following nutrition ASSESSMENT tools do you use?

- Subjective global nutritional assessment (SGNA)
- WHO criteria
- A self-developed "in house" tool
- Other, please specify in text box

ALL RESPONDENTS

13. How is health information (NUTRITION ASSESSMENT PARAMETERS) documented in your hospital/institution?

- Electronic health records only
- Paper charts only
- A mix of electronic health records and paper charts

14. If your healthcare setting utilizes an electronic health record (EHR), who is your primary EHR vendor where the inpatient nutrition assessment data is housed?

- Affinity
- Athena (Protouch)
- Cerner (Powerchart)
- Eclipsys/Allscripts (Sunrise)
- Epic
- Essentris
- GE (Centricity)
- McKesson (Paragon)
- Meditech
- QuadraMed
- Siemens
- Veteran Administration's VistA (CPRS)
- Other, please specify TEXT BOX

15. Within your EHR system, how are the nutrition characteristics and markers documented?

- As structured data including drop down boxes, radio buttons or check boxes
- Partly structured and partly in free text section
- Totally in free text section
- Don't know

16. Does your EHR have clinical decision support for malnutrition diagnosis coding?(Ex: does it send an alert to the primary provider when the patient meets the criteria for malnutrition to document this diagnosis with supporting evidence so malnutrition can be coded?)

- Yes
- No
- Don't know

17. Does the EHR send an alert to the coders when there is documentation in the EHR that would support a malnutrition code?

- Yes
- No
- Don't know

18. Does your hospital have the resources to run reports on the nutrition assessment data that can be extracted from the EHR?

- Yes
- No
- Don't know

19. Does your hospital have the resources to run reports on pertinent clinical outcomes including hospital length of stay, infection, mortality, 30-day readmission, etc.?

- Yes
- No
- Don't know