Identifying Malnutrition in Hospital



Presentation Overview

- What is malnutrition?
- Case Study
- Prevalence of Malnutrition
- Canadian Nutrition Screening Tool

What is malnutrition?

- Malnutrition = "Undernutrition"
- Inadequate intake of energy, protein and other nutrients
- Long term needs to functional impairment
 - -Muscle loss
 - -Weakness

Malnutrition

- Occurs in all body types
- With or without fat loss

 Different from cachexia



A case of malnutrition in hospital

Mrs. Smith

- 83 year old female, widowed
- Living alone following the loss of her husband;
 Few supports
- Unable to grocery shop and prepare meals
- Diet: Mainly tea, crackers and canned items
- Significant weight loss





A case of malnutrition in hospital

Mrs. Smith (continued)

- Suffers a fall and resulting hip fracture
- No history on weight or food intake
- Focus only on rehabilitation and physiotherapy
- Appetite and weight decrease in hospital
- Length of stay: 197 days; eventual need for replacement

Mrs. Smith is never able to return home.

A case of malnutrition in hospital

Mrs. Smith was at risk for malnutrition and was not seen by a dietitian

If she was screened properly upon admission she would be identified as eating poorly and losing weight; information that could have changed her recovery



Prevalence of malnutrition

About ___% of patients are malnourished at admission in hospitals across Alberta

a. 12

b. 47

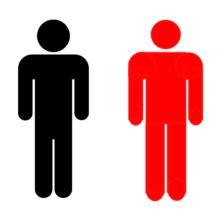
c. 26

d. 65

Prevalence of malnutrition

Almost 50% of adult patients are malnourished at admission in hospitals across Alberta

Nearly 1 in 2 patients



Prevalence of malnutrition

Only 1 in 4 of those entering the hospital malnourished are detected.

75% of malnourished patients are missed.

Impact of malnutrition

- ↑ Morbidity
- ↓ Wound Healing
- ↑ Infections
- ↑ Complications
- ↑ Convalescence



Impact of malnutrition

- ↑ Mortality
- **↑ Treatment**
- ↑ Length of stay in hospital



Hospital consequences

- 3 day longer stay in hospital
- \$2000 average additional cost/ patient
- 2X more likely to be readmitted

How to identify malnutrition?

Nutrition Screening

Ensures detection of all patients at risk for malnutrition within 24 hours



State of dietitian referrals

- 1 of 18 hospitals had a standardized screening program
- Dietitians saw 23% of patients (typically referral)
 - 45% of these patients were well nourished
 - 36% had mild/moderate malnutrition
 - 19% had severe malnutrition
- 75% of mild/moderate and 60% of severely malnourished patients were missed

How can we improve?

We need a process that

- Is quick and simple
 - Conducted by admitting or front line staff
- Ensures the right patients are seen by the dietitian

Canadian Nutrition Screening Tool



What is the Canadian Nutrition Screening Tool (CNST)?

- A valid and reliable tool to assess malnutrition risk in adult acute care
- Questions can be asked of family or friends or patient
- Can be completed by admitting or frontline staff



Affix patient label within this box

Canadian Nutrition Screening Tool (CNST)

Date (yyyy-Mon-dd)	Weight	
Patient Phone Number	Clinic/Unit	
Identify patients who are at risk for malnutrition Ask the patient the following questions		
Have you lost weight in the past 6 months without trying to lose this weight (If the patient reports a weight loss but gained it back, consider it as a №0 weight). □ Yes		
□No		
Have you been eating less than usual for more than a ? ☐ Yes		
□ No		
Two "YES" ar Jers in the nutrit SK. Patients at nutrition risk need an assessment to confirm an Inutrition of Sefer to a Registered Dietitian.		
Comments (Optional)		
Signatur		Date (yyyy-Mon-dd)

Consists of 2 questions:

- Weight loss in last6 months
- Appetite in last week

^{*} If the patient is unable to ver the questions, a knowledgeable informant can be used to obtain the information. If the patient is uncertain regarding weight is, ask if clothing is now fitting more loosely.

0-1 Yes answers:

- Full nutrition assessment does not need to be completed
- Proceed as usual for further patient treatment

2 Yes answers:

- Initiate process of RD referral
- RD assessment determines type of nutrition treatment or intervention

Proceed as usual for further patient treatment

Will this affect treatment and intervention?

 No, nutrition treatment and intervention should not change

Where and when should CNST be used?

 The first pre-admission visit, the preadmission clinic, or upon admission

Who will do the screening?

- Admitting or front-line staff
 - -Nursing, Registered Dietitian

Will this affect my workload?

- More patients may be referred to the registered dietitian
- Fewer patients may be missed in malnutrition screening

When will the change happen?

Consult your unit dietitian for more information

CNST – Screening standard

- Will help to standardize:
 - Malnutrition screening at all adult acute care site
 - The dietitian referral process
 - Provincial order sets

Summary

Malnutrition

- About 1 in 2 adult hospital patients
- Negative impacts to healing and LOS

Canadian Nutrition Screening Tool (CNST)

- Standardized for adult acute care
- Two questions weight loss & appetite
- 2 "yes" answers
 - Patient at malnutrition risk
 - Send Dietitian consult

Questions?

References

- Canadian Malnutrition Task Force. Canadian Malnutrition Screening Tool. 2014. Retrieved from http://nutritioncareincanada.ca/sites/default/uploads/files/CNST.pdf
- Allard JP, Keller H, Jeejeebhoy KN, Laporte M, Duerksen DR, Gramlich L, et al. Malnutrition at hospital admission-contributors and effect on length of stay: a prospective cohort study from the Canadian Malnutrition Task Force. J Parenter Enteral Nutr 2015 [cited 2018 March 14].
- Curtis LJ, Bernier P, Jeejeebhoy K, Allard J, Duerksen D, Gramlich L, Laporte M, Keller HH. Costs of hospital malnutrition. Clinical Nutrition. 2017 Oct 1;36(5):1391-6.