Emma Cummack - Registered Dietitian

Better Nutrition **A BONE-AFIDE WAY TO IMPROVE HIP** FRACTURE CARE



Malnutrition

Malnutrition is a deficiency of energy, protein and/or other nutrients causing adverse effects on body composition, function or clinical outcome.

Prevalence of Malnutrition

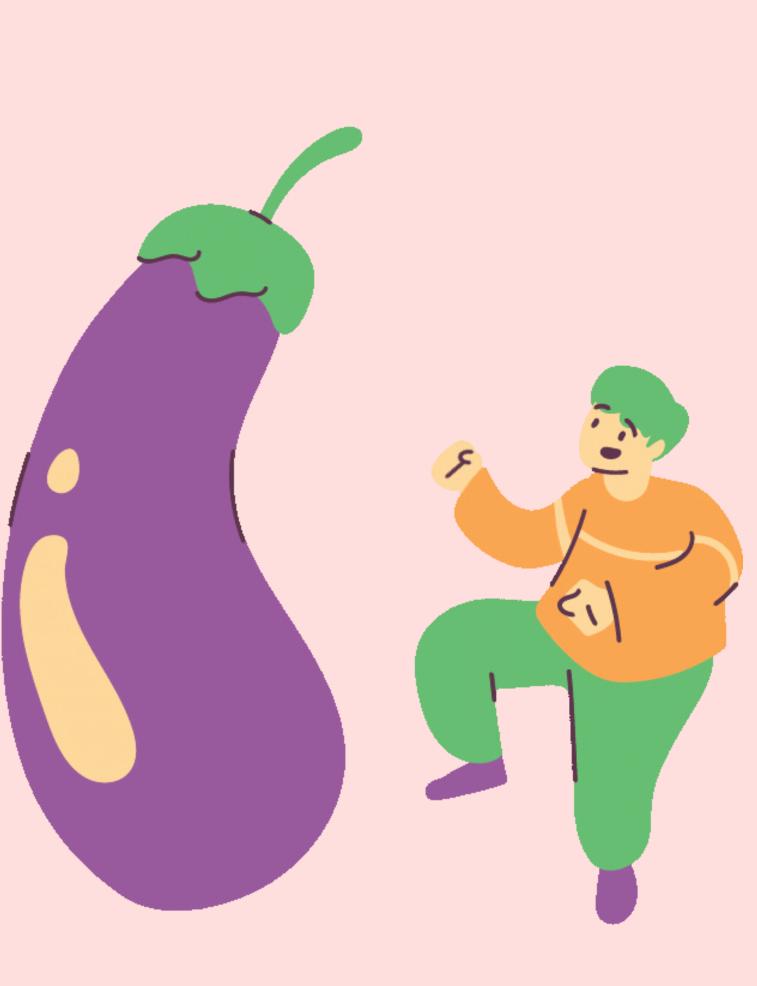
- In Hospital 1 in 3 adults are malnourished
- Nearly 1 in 2 residents in aged care are malnourished
- 4 in 10 older adults in the community are at risk of malnutrition
- Identified in up to 1 in 2 hip fracture patients

Malnutrition Screening

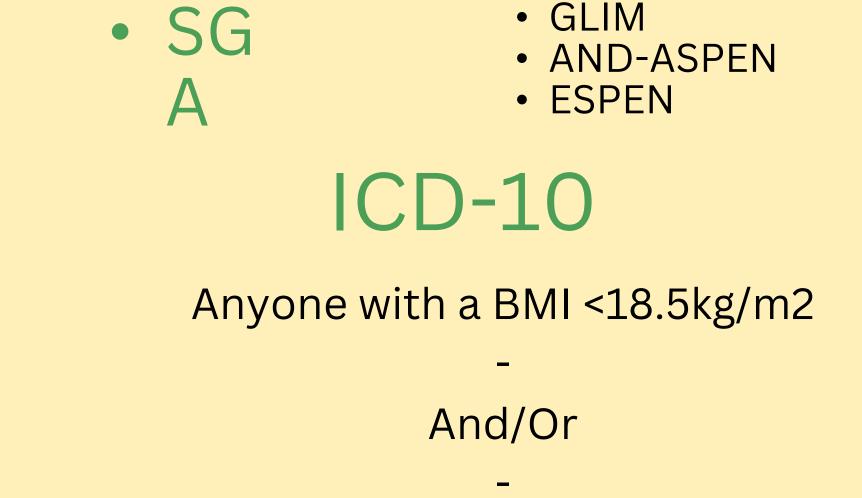
- MST Score
- MUST
- MNA
- NRS
- NRI

MST Screening

- Has the patient lost weight in the last three months without trying?
- Has the patient been eating poorly because of poor appetite?



Malnutrition Diagnostic Tools



Unintentional weight loss >5% with evidence of suboptimal intake resulting in loss of subcutaneous fat and/or muscle wasting

> NB: BMI should consider the ethnicity of the patient Asian normal range BMI 16.5 -23 Maori/Pacific Origin BMI: 20.5 – 27.5



Anorexia

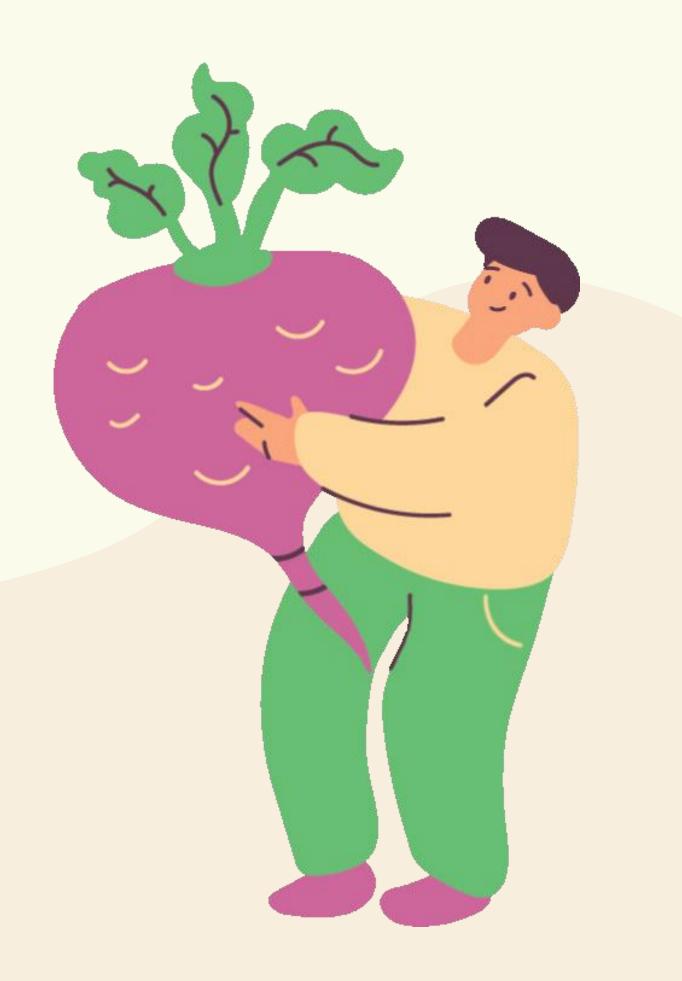
Anorexia is the loss of appetite or reduced nutritional intake.

Sarcopenia

Sarcopenia is the loss of muscle mass and function associated with ageing

Cachexia

Cachexia is a complex condition related to an underlying illness. It results in weight loss with a loss of muscle with or without loss of fat mass



Consequences of Malnutrition

- Impaired wound healing
- •Reduced muscle strength
- Impaired immune response
- Increased risk of mortality
- •More hospital admissions and readmissions
- Longer hospital stays
- •Higher healthcare costs



The Malnutrition Carosel

33% admitted to Christchurch Hospital are malnourished

Home

More GP visits More hospital admissions



Up to 70% of discharged patients weigh less than on admission



Hospita

Longer hospital stays More supports post discharge More likely to go into care

Malnutrition occurs across all BMI ranges

Unintentional weight loss

> Social isolation

Unable to ohysically sho cook and/or feed themselves

> Illness or medical conditions such as cancer

Nil by mouth eg surgery/ post-surgery

Т

Have we missed a diagnosis?

They look well... but also investigate

Reduced appetite

Reduced food intake

> Chewing/ swallowing problems

Depression and dementia

Nausea, vomiting and diarrhoea

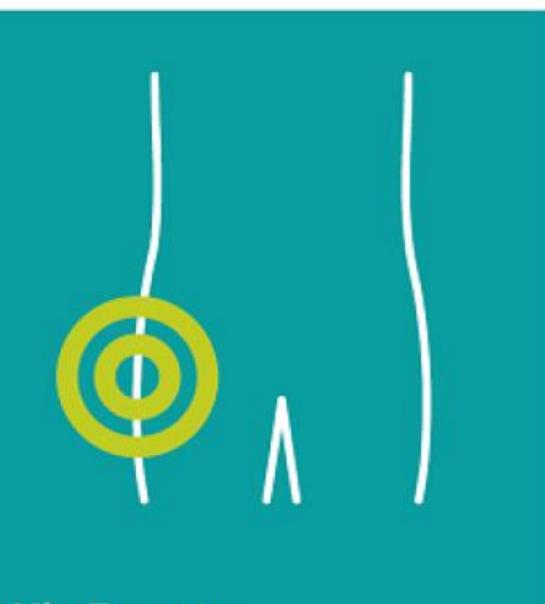
They could be malnourished.

Malnutrition WeekANZ #malnutritionweekANZ

Supported by CABbott AVANOS Manager Supported by CABbott AVANOS

AUSTRALIAN COMMISSION on SAFETY AND QUALITY IN HEALTH CARE





Hip Fracture Clinical Care Standard

September 2023

Revised Hip Fracture Clinical Care Standards now include nutrition

Quality Statement 3

Orthogeriatric model of Care:

Early assessment of the patient's nutritional status using a validated assessment tool, and reassessment during the course of the admission with individualised interventions when required , including offering oral nutritional supplements and avoiding prolonged NBM restrictions



BOX 2 - Hip Fracture Clinical Care Standards

Ensuring that the patient has their teeth in situ

A swallowing assessment

Cognitive and mood assessment

Encouraging and assisting with feeding at mealtimes

Appropriate medical management of nutritional impact symptoms (pain, constipation, nausea, vomiting, appetite)

Avoiding prolonged Nil By Mouth restrictions

Nutrition-related diagnosis and education

Reviewing the nutritional content of the diet provided

Advice on ensuring adequate calcium intake in the diet



ESPEN Guidelines

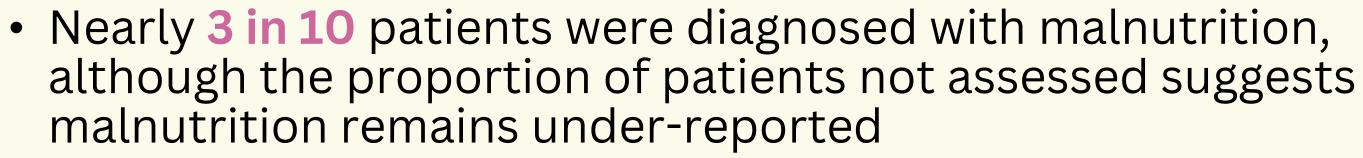
Older patients with hip fracture shall be offered ONS postoperatively in order to improve dietary intake and reduce the risk of complications. (Grade A, strong consensus 100%)

Nutritional interventions in geriatric patients after hip fracture and orthopedic surgery shall be part of an individually tailored, multidimensional and multidisciplinary team intervention in order to ensure adequate dietary intake, improve clinical outcomes and maintain quality of life. (Grade A, strong consensus 100%)



SIMPLE APPROACH - Jack Bell <u>S</u>ystemised Interdisciplinary **M** alnutrition P athway Imp L ementation **E** valuation

ANZHFR Nutrition Sprint Audit (2021)





- 5 in 10 patients did not receive any form of nutrition support
- Only **3** in **10** patients received oral nutrition supplements
- Less than 2 in 10 patients received prescribed oral nutrition supplements
- 5 in 10 patients diagnosed with malnutrition were not provided with diagnostic advice and a treatment plan

Christchurch Hospital Approach

NUTRITION - DATE MST COMPLETED (RESCREEN REQUIRED EVERY 5 DAYS)

Patient has lost weight in the last 3 months without trying

Unsure (Score 2)

Has the patient been eating poorly because of poor appetite? • Yes (Score 1)

Wednesday 4 September 2024

✓ Malnutrition Risk - Score 3 (High risk)

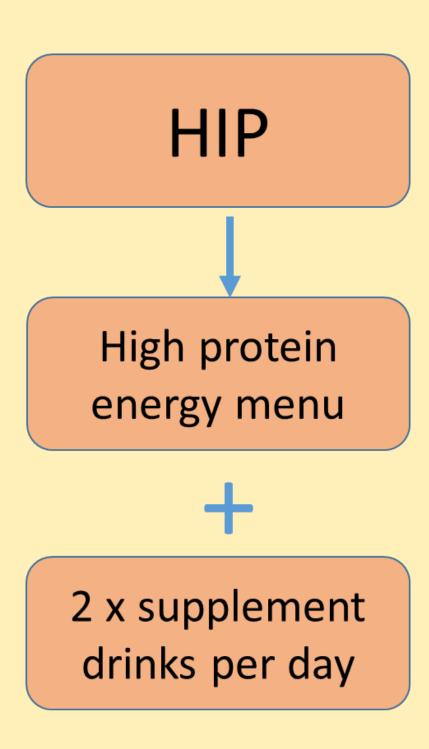
Dietitian referral required. Start 3 day food and fluid chart

Symptoms affecting eating

- Fatigue
- Medication side effects
- Nausea
- No appetite, does not feel like eating







Malnutrition Coding

MALNUTRITION CODE

*MALNUTRITION CODE

*Malnutrition code

⊘ Yes

***SUBJECTIVE GLOBAL ASSESSMENT**

SGA observations

Physical appearance observations

Please see full Subjective Global Assessment form for full details



Symptoms Impacting Malnutrition Status

- Nausea & Vomiting
- Pain
- Bowels
- Dysphagia
- Fatigue
- Poor Appetite



Factors impacting Malnutrition Status in Hospital

- Positioning in bed for eating
- Interruptions to meal times
- Trays out of reach
- Functional status to open meals packets
- Ability to self feed
- Long NBM periods



Practical Nutrition Advice

Provide Assistance as Required

Little and Often

Protein rich meals and snacks

Food Fortification

Calorie containing fluids and supplements





