# What is Malnutrition?

NutriCaRe - Improving Nutrition & Hydration, Enhancing Care & Recovery

Malnutrition, or undernutrition, happens when your body does not receive enough calories and proteins that it needs.



### Malnutrition can result in:

- Higher risk for falls
- Poor healing and increased infections
- Higher risk of post surgery complications
- Longer hospital stays
- Hospital re-admissions

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## Signs of Malnutrition



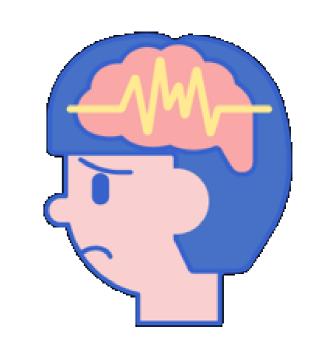
Lack of appetite or disinterest in food/drinks





Fatigue and irritability





Difficulty concentrating

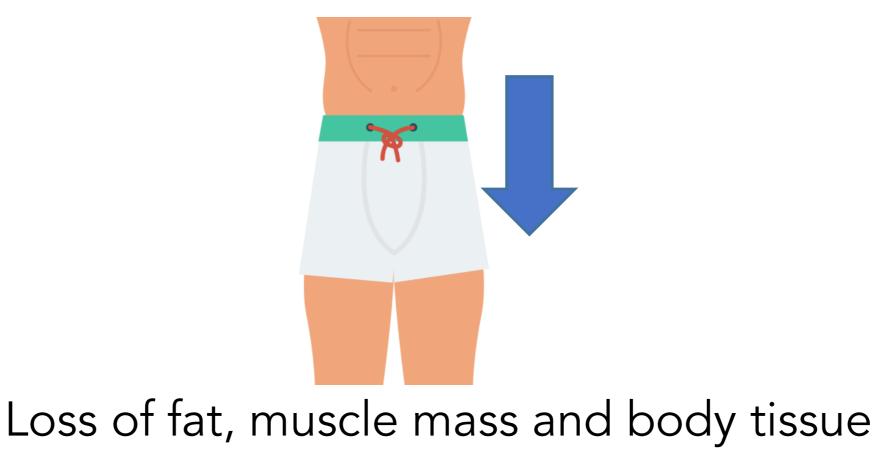




Constantly feeling cold

Constant illnesses and longer recovery time from illnesses

Depression





## Food Fortification

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Food fortification means to increase the nutritive value of foods. How can I help someone improve his/her overall nutritional intake? Add any of the following ingredients to the main food item below to improve its nutritional value, without increasing its portion size!

**Wholemeal** 

1 slice (30g)

bread

80 kcal,

#### **Canned Tuna** in Oil

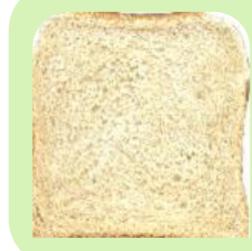


1/3 can (40g) 90 kcal, 10g protein



2 tablespoons (30g) 110 kcal, 0g protein

### Main Food Item



3g protein

Porridge 1 bowl, (250ml) 210 kcal, 3g protein

#### Chocolate Spread\*



2 tablespoons (30g) 170 kcal, 2g protein

Fruit Jam\*



2 tablespoons (30g) 110 kcal, **Og protein** 

Sesame Oil



1 tablespoon (15ml) 110 kcal, **Og protein** 



**Cream Crackers** 3 pieces (30g) 120 kcal, 2g protein



**Oats** /Nestum 4 tablespoons (30g) 120 kcal, 5g protein

Honey\*



2 tablespoons (30g) 90 kcal, **Og protein** 

**Peanut Butter** 



2 tablespoons (30g) 190 kcal, 8g protein



All nutritional values are an estimate from available information sources (i.e. Health Promotion Board database, food packaging).

This food may raise sugar levels

in patients with diabetes

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#### **Sliced Cheese**



1 slice (20g) 70 kcal, 4g protein

#### **Braised Peanuts**



3 tablespoons (45g)

### Main Food Item



Wholemeal bread 1 slice (30g) 80 kcal, 3g protein



Porridge 1 bowl, (250ml) 210 kcal, 3g protein

#### **Canned Sardines**



1 piece (70g) 100 kcal, 10g protein

#### **Cooked Minced Meat**



3 tablespoons (90g) 150 kcal, 21g protein

110 kcal, 6g protein





2/3 block (200g) 100 kcal, 10g protein



1 large whole (60g) 80 kcal, 7g protein



Cream crackers 3 pieces (30g) 120 kcal, 2g protein



Oats /Nestum 4 tablespoons (30g) 120 kcal, 5g protein **Chicken Floss** 



2 tablespoons (30g) 130 kcal, 10g protein

#### Gravy, Curry (meat)



1 cup (125ml) 240 kcal, 3g protein



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# High Calorie Snacks

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Local desserts: 1 serving size = 1 bowl (250ml) unless otherwise stated



Yam Paste/ Orh Nee \* 480kcal, 3g protein



Cream Wafers \* 3 pieces (30g) 140kcal, 1g protein



Yam Cake 1 piece (130g) 200kcal, 3g protein



Laddu \* 1 piece (30g) 170kcal, 3g protein



Jalebi \* 1 piece (50g) 150kcal, 2g protein



Bubur Cha Cha\* 380kcal, 5g protein







Snacks between meals are helpful ways to increase calorie/protein intake.



Pandan Cake \* 1 piece (40g) 100kcal, 3g protein



Pulut Hitam with Coconut Milk \* 210kcal, 2g protein



Chicken Pau 1 medium (60g) 140kcal, 5g protein





Chocolate \* 1 bar (40g) 200kcal, 2g protein



This food may raise sugar levels in patients with diabetes

Offer Variety of Snacks, Be Creative!





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# High Calorie Snacks

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Siew Mai 2 pieces (50g) 160kcal, 4g protein



Keropok 1 serve (30g) 130kcal, 1g protein



Payasam \* 270kcal, 4g protein



Tang Yuan (glutinous rice balls) 2 pieces \* 150kcal, 2g protein



Goreng Pisang \* 1 piece (65g) 200kcal, 1g protein



Snacks between meals are helpful ways to increase calorie/protein intake.





Butter Cake \* 1 slice (40g) 160kcal, 2g protein



Ice-Cream \* 1 scoop (50g) 180kcal, 3g protein



Vadai 1 piece (50g) 150kcal, 5g protein



Agar-agar \* 1 piece (150g) 120kcal, 0g protein



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## Ensure Adequate Fluids & Hydration

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**Dehydration** can result in adverse effects on function & clinical outcomes. **Older adults** are especially susceptible to dehydration due to their limited ability to take adequate fluids.

### Signs and Symptoms of Dehydration:

- •Tiredness and/or Headache (as shown)
- •Dry Mouth/Lips
- Dark Coloured or Strong-smelling Urine
- •Dry & Loose Skin
- Fever

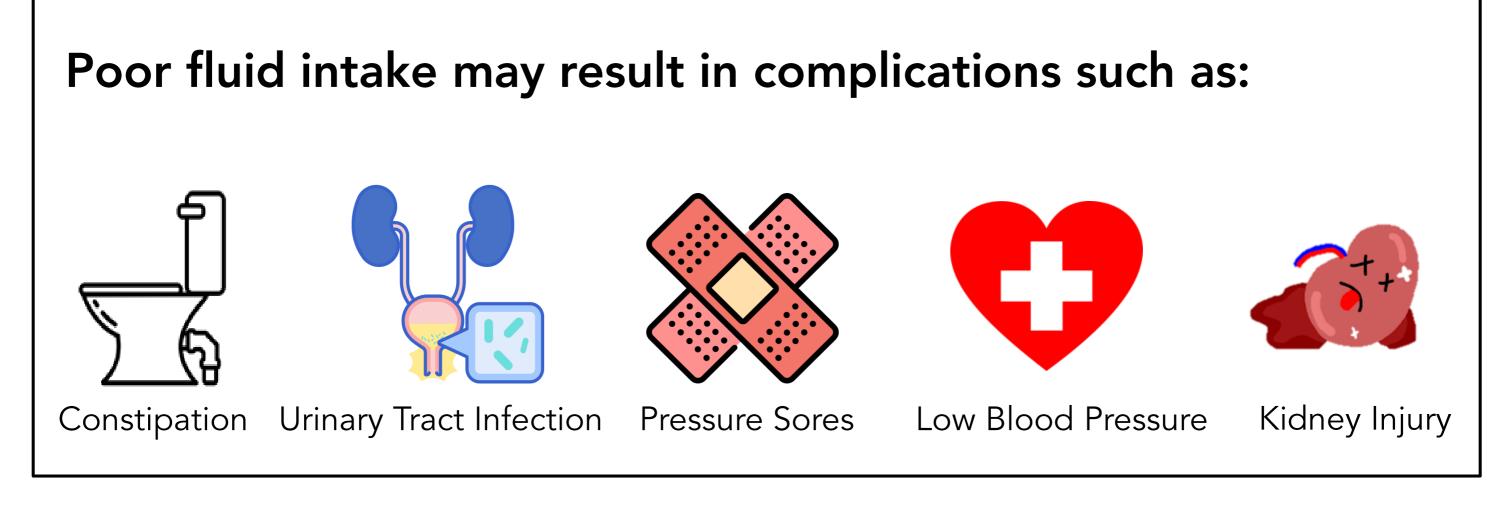
### **Causes of Dehydration:**

Vomiting (as shown)





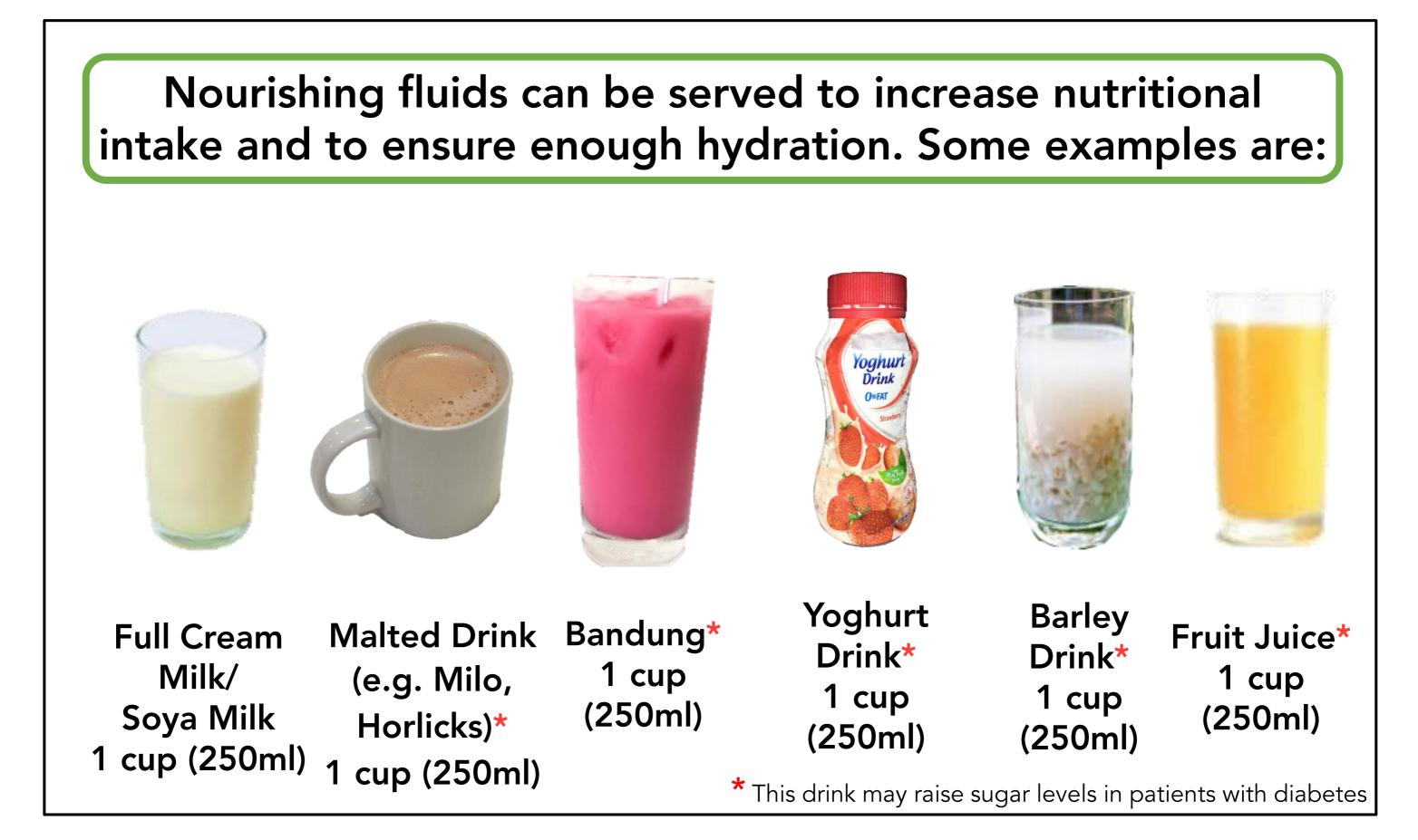
- Diarrhoea
- Insufficient Water Intake





## Ensure Adequate Fluids & Hydration

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### **Oral Nutritional Supplements (ONS):**

- Specially formulated beverages that contain energy, proteins, vitamins & minerals
- Used to supplement nutritional intake when someone is eating poorly at meals
- Do consult with your doctor/dietitian regarding the consumption of ONS
- The ONS must be taken under the supervision of the doctor/dietitian

