


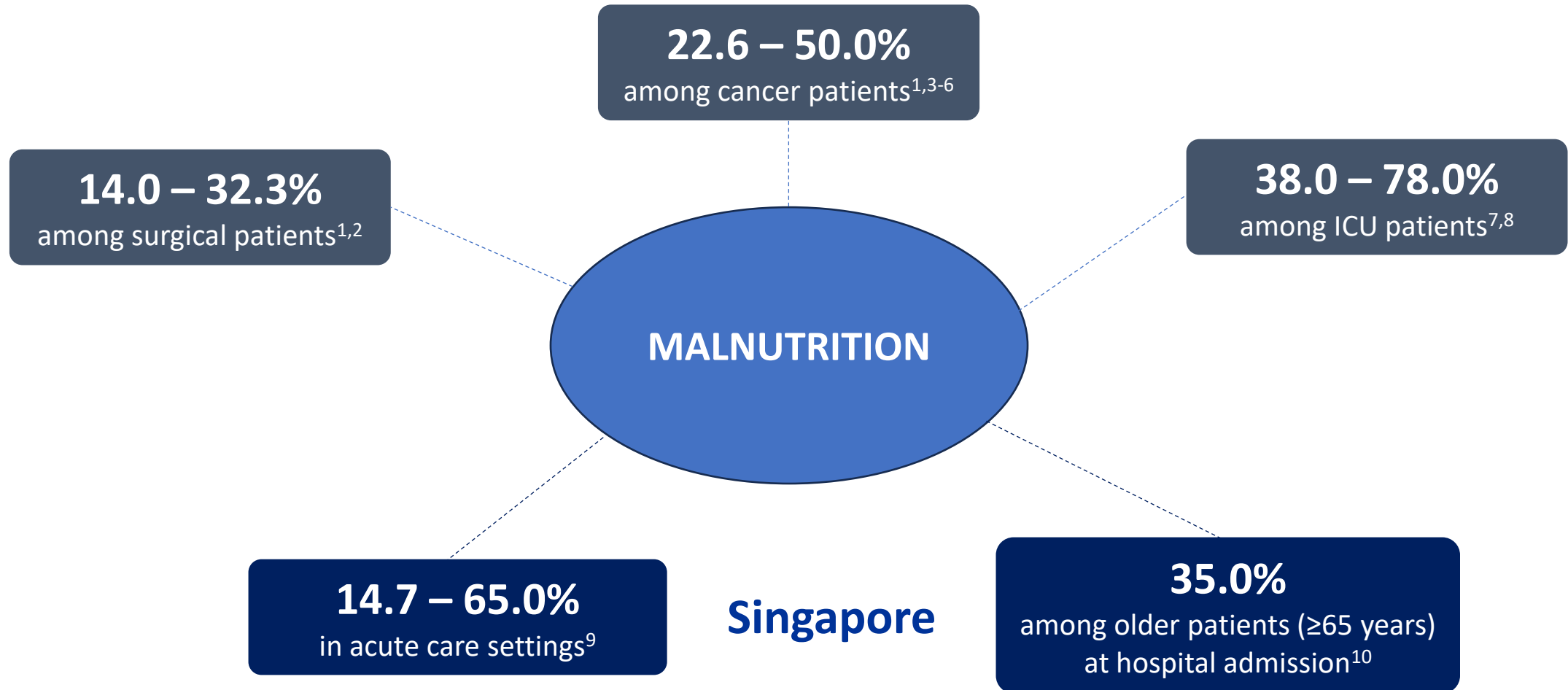


# Nutrition Care after Hospital Discharge in Singapore

*Evidence-Based Best-Practice Recommendations*

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# Prevalence of malnutrition among hospitalised patients has not substantially changed since it was first reported in 1970s



1. Kamperidis N, et al. Clin Nutr ESPEN 2020;35:188–193; 2. Santos MLD, et al. Arq Bras Cir Dig 2022;35:e1663; 3. Cao J, et al. Curr Probl Cancer 2021;45(1):100638; 4. Gyan E, et al. JPEN J Parenter Enteral Nutr 2018;42(1):255–260; 5. Steer B, et al. Nutrients 2020;12(11):3493; 6. Zhang Z, et al. Nutrition 2021;83:111072; 7. Cattani A, et al. Nutr Rev 2020;78(12):1052–1068; 8. Lew CCH, et al. JPEN J Parenter Enteral Nutr 2017;41(5):744–758; 9. Wong A, et al. Proceedings of Singapore Healthcare. 2021;30(3):225-241; 10. Lim Y. Available from: [https://eprints.qut.edu.au/44143/1/Yen\\_Peng\\_Lim\\_Thesis.pdf](https://eprints.qut.edu.au/44143/1/Yen_Peng_Lim_Thesis.pdf).

# Malnutrition is associated with negative impacts on patients<sup>1-3</sup>



Prolonged hospital stays



Increased mortality



Increased risk of postoperative complication

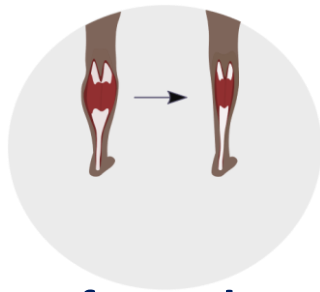


Higher healthcare costs



Increased risk of re-admission

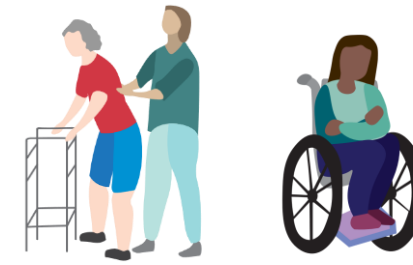
**In malnourished individuals**



**Loss of muscle mass**



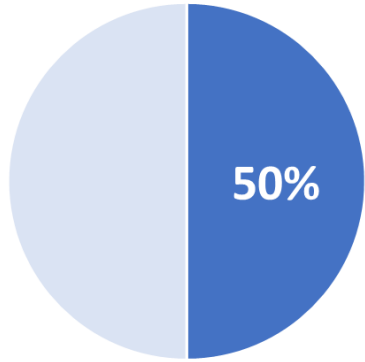
**Functional decline**



**Loss of independence<sup>4</sup>**

*Images from Prado CM, et al. Clin Nutr 2022;41:2244-2263.*

# Malnutrition and risk of malnutrition are prevalent at point of discharge



~50% hospitalised patients are malnourished at discharge.<sup>1</sup>



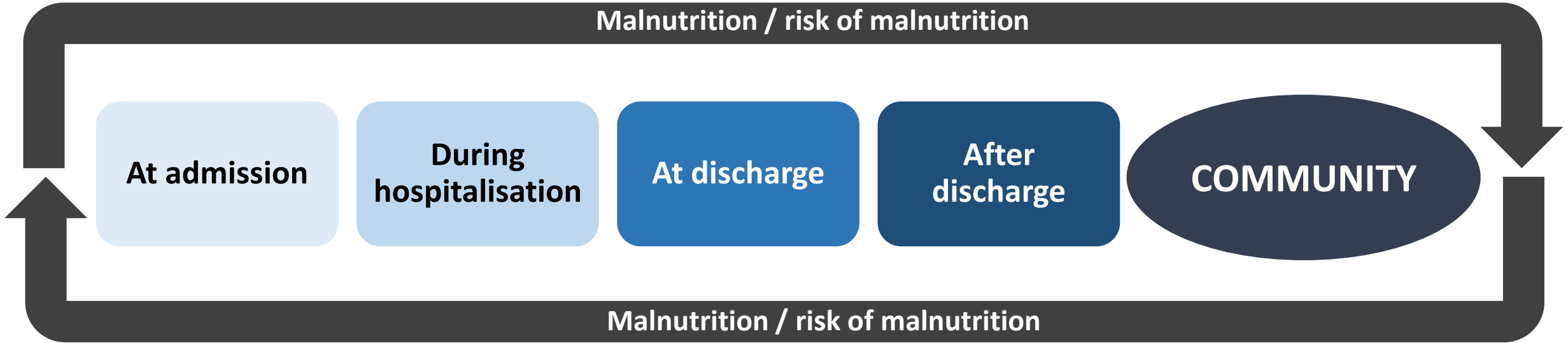
Nutritional status often **declines during hospitalisation**,<sup>2-5</sup> which may lead to longer hospital stay and readmission within 6 months after discharge.<sup>6</sup>

## *Geriatric patients*



- With **risk of malnutrition at discharge** → **2-fold** increase in mortality.<sup>7</sup>
- With **sarcopenia and malnutrition/risk of malnutrition at discharge** → **4-fold** increase in mortality.<sup>7</sup>

# Addressing malnutrition during hospitalisation and before discharge is critical



## Critical Actions

- 1 Identify patients experiencing nutritional decline during hospitalisation and those who may be at risk of malnutrition at discharge.
- 2 Treat malnutrition in these individuals during hospitalisation.
- 3 Formulate a nutrition care plan before discharge so nutrition care can continue in the community.

# Best practice recommendations: from a multidisciplinary expert panel in nutrition support, geriatrics, dietetics and surgery.

**“What is the current best evidence to support best practices for nutrition care at and after discharge from hospital?”**

## The literature

- Current best evidence on nutrition care after discharge
- Existing gaps / barriers in Singapore



## Short, anonymous national survey

- To gain preliminary insights on existing practices and identify gaps, if any, of nutrition care after hospitalisation in Singapore
  - ❑ 242 responses
  - ❑ 8 public general hospitals and 4 community hospitals



**Evidence-based best practice recommendations for nutrition care after hospital discharge in Singapore**

*Recommendation 1*

All patients should undergo nutrition screening within 24h of admission.

**Recommendations from The Joint Commission International standard:**

- Nutrition screening **within 24h of admission**, and
- At **frequent intervals throughout hospitalisation**.

*Recommendation 2*

Nutrition re-screening should be performed on a weekly basis during hospitalisation to identify individuals who may be experiencing nutritional decline.

**Guidelines recommendation**

- NICE: nutrition screening **once a week** for inpatients.<sup>1</sup>
- ESPEN: re-evaluation of standard diet **5 days after hospitalisation**.<sup>2</sup>
- ESPEN: **regular re-assessment** of nutritional status is important for patients who have undergone surgery.<sup>3</sup>



*Recommendation 3*

If a patient is at risk of malnutrition, any HCPs regardless of profession should be able to make a direct referral to dietitians for further assessment and intervention.

**Nutrition intervention initiated in hospital positively affects clinical course.**

- The EFFORT RCT: **21% reduction in adverse outcomes** and a **35% reduction in mortality**.<sup>1</sup>
- 2023 umbrella review and meta-analysis: **reduction in mortality for up to 12 months**.<sup>2</sup>



**Need for all patients at risk of malnutrition to be referred to dietitians for assessment and intervention to minimise adverse outcomes.**

HCP, healthcare professional; RCT, randomised clinical trial.

1. Schuetz P, et al. Lancet 2019;393(10188):2312–2321; 2. Wong A, et al. Am J Clin Nutr 2023;S0002-9165(23)66023-X.

*Recommendation 3*

If a patient is at risk of malnutrition, any HCPs regardless of profession should be able to make a direct referral to dietitians for further assessment and intervention.

To ensure that all at-risk and malnourished patients can receive timely systematic assessment, appropriate and individualised interventions, and adequate monitoring and follow-up:

1. **Incorporate nutrition screening results in electronic health records** to allow prompt communication between nursing staff and other HCPs
2. Electronic healthcare system should be programmed to **automatically initiate dietetic referral when a patient screens positive** on the nutrition screening tool at admission and before discharge
3. Conduct an **audit of nutrition screening and referral process on a regular basis** to facilitate consistent implementation.

## Recommendation 4

All patients should undergo nutrition screening at discharge.

### Data supporting the need for nutrition screening at discharge

#### During hospitalisation

Patients experience **nutritional decline and weight loss**.<sup>1,2</sup>

Nutritional decline was **associated with increased likelihood of re-admission and increased mortality** after discharge.<sup>2-5</sup>

#### After discharge

Malnutrition **remained prevalent in geriatric patients** even up to 4 weeks after discharge.<sup>6</sup>

Nutritional recovery in older patients after hospitalisation is slow,<sup>7,8</sup> thus they may **continue to have low nutritional intake and weight loss** at home in the community.<sup>9</sup>

*Recommendation 4*

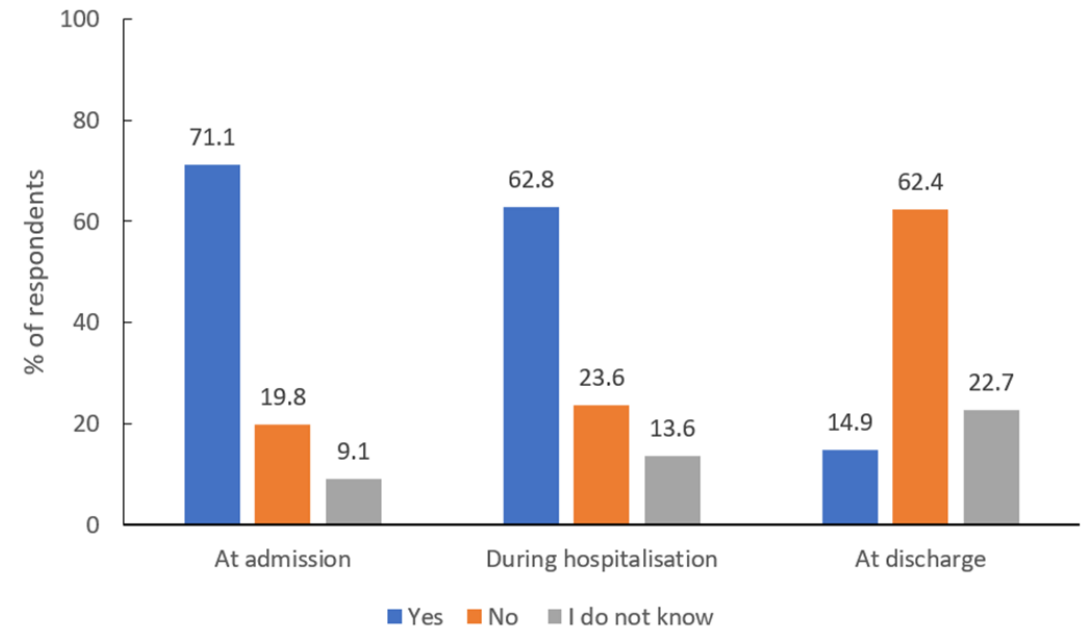
All patients should undergo nutrition screening at discharge.

**But ...**

Nutrition assessment at discharge is **not performed on a regular basis** by physicians<sup>1</sup> or hospitals<sup>2</sup>

Our survey results also showed that nutrition screening at discharge is **not presently implemented in hospitals in Singapore.**

**Figure S1.** Nutritional screening at admission, during hospitalisation and at discharge.



**Nutrition screening should be performed on all patients prior to discharge to avoid the negative outcomes associated with unaddressed malnutrition.**

### Recommendation 5

Use a validated screening tool that includes a disease activity/burden component.

#### Consensus recommendation

The **use of a validated screening tool is recommended** to identify patients at risk of malnutrition.<sup>1,2</sup>

**GLIM criteria for diagnosis of malnutrition:** at least 1 phenotypic criterion (weight loss, low BMI or reduced muscle mass) + 1 etiologic criterion (reduced food intake or assimilation, or disease burden/inflammatory condition).<sup>1</sup>

Validated tools incorporating disease activity/burden component: **MUST, MNA and NRS-2002**.<sup>1,3</sup>

BMI, body mass index; GLIM; Global Leadership Initiative on Malnutrition; MNA, Mini Nutritional Assessment; MUST, Malnutrition Universal Screening Tool; NRS-2002; Nutrition Risk Screening 2002.

1. Cederholm T, et al. Clin Nutr 2019;38(1):1–9; 2. Volkert D, et al. J Clin Med 2019;8(7):974; 3. Van der Schueren MAE, et al. Clin Nutr 2022;41(10):2163–2168.

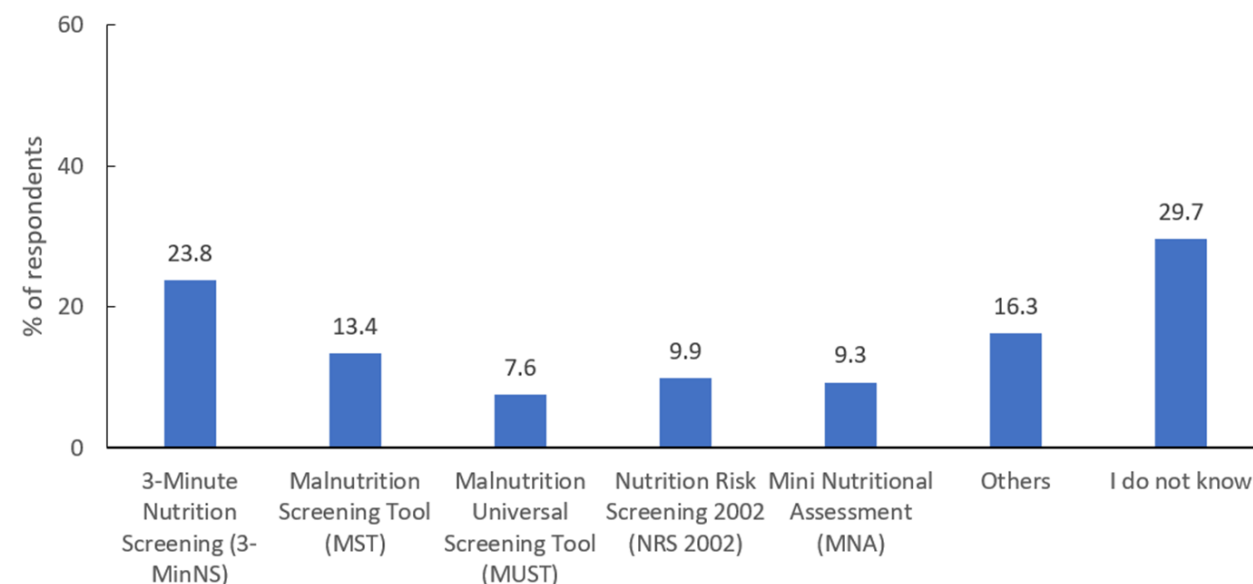
**Recommendation 5**

Use a validated screening tool that includes a disease activity/burden component.

Currently,

Our survey results also showed that **various nutrition screening tools are used** across institutions in Singapore.

Figure S2. Tools used for nutrition screening.



The use of the same screening tool by all public health institutions is encouraged to facilitate better communication across healthcare institutions.

### Recommendation 6

An individualised nutrition care plan should be formulated for patients who have been assessed to be malnourished or at risk of malnutrition during hospitalisation or at discharge.

### Data supporting the need for an individualised nutrition care plan

Presence of malnutrition / risk of malnutrition at admission indicates that the **underlying issue is already present prior to hospitalisation**,<sup>1</sup> thus the need for appropriate discharge planning.

An individualised nutrition care plan ensures that nutrition care continues after patients are discharged from the hospital to the community. But **patients are often discharged without such a plan**.<sup>1-3</sup> HCPs (from hospital, primary care and community practices) **infrequently make or receive a nutrition care plan post-hospital discharge**.<sup>4</sup>



**Implementing nutrition screening at discharge and enabling automatic dietitian referral after screening, as required, would help ensure that dietitians are involved in discharge planning.**

HCP, healthcare professional.

1. Brooks M, et al. J Hum Nutr Diet 2019;32(5):659–666; 2. Holst M, Rasmussen HH. J Nutr Metab 2013;2013:463751; 3. Young AM, et al. J Frailty Aging 2015;4:69–73; 4. Keller H, et al. JPEN J Parenter Enteral Nutr 2022;46(1):141–152.

### *Recommendation 7*

The individualised nutrition care plan provided should include the following information:

1. **Target weight** - achieving a body mass index (BMI) of at least 18.5 kg/m<sup>2</sup> in those <70 years and 20 kg/m<sup>2</sup> in those >70 years
2. **Target energy and protein intake** – use ideal body mass index or estimated energy requirements plus 400 - 500 kcal for weight gain
3. **Strategies to achieve target weight** (i.e., food fortification, small frequent meals, nourishing fluids, and oral nutrition supplements [ONS])
4. **Duration of nutrition intervention**
5. **Dietetics follow-up appointment**
6. **Updates on nutrition care progress for primary-care physician.**



### Recommendation 7

The individualised nutrition care plan provided for Asians should include the following information:

1. **Target weight** - achieving a body mass index (BMI) of at least 18.5 kg/m<sup>2</sup> in those <70 years and 20 kg/m<sup>2</sup> in those >70 years

#### **GLIM consensus recommendation**

One of the criteria for the **diagnosis of malnutrition**: a BMI <18.5 kg/m<sup>2</sup> for Asians <70 years and <20 kg/m<sup>2</sup> for Asians >70 years.<sup>1</sup>

## Recommendation 7

The individualised nutrition care plan provided should include the following information:

### 2. Target energy and protein intake

#### Energy intake

ESPEN<sup>1,2</sup>: **at least 30 kcal/kg of actual body weight/day** for:

1. older patients
2. those with an acute or chronic disease who are malnourished or at risk for malnutrition
3. those with disease-related metabolic stress.

To gain of 0.5 kg/week: an additional of at least 500 kcal/day is needed.<sup>3,4</sup>

#### Protein intake

ESPEN<sup>1</sup>: **at least 1.2 g/kg of actual body weight/day** is recommended for inpatients.<sup>1</sup>

PROT-AGE<sup>5</sup>:

1. **1.2–1.5 g protein/kg of body weight/day** for older adults with acute or chronic disease
2. **up to 2.0 g protein/kg of body weight/day** may be necessary for those with severe illness, injury, or severe malnutrition.

### Recommendation 7

The individualised nutrition care plan provided should include the following information:

3. **Strategies to achieve target weight** (i.e., food fortification, small frequent meals, nourishing fluids, and oral nutrition supplements [ONS])
4. **Duration of nutrition intervention**

#### Guidelines recommendations

ESPEN: **Fortified food** to support adequate dietary intake in older individuals with malnutrition or at risk of malnutrition.<sup>1</sup>

**Small frequent meals** (characterised by multiple small meal consumptions throughout the day) in patients with inadequate dietary intake, but specific guidance on meal size, frequency and timing is required to prevent exacerbation of clinical conditions or other potential health complications.<sup>2</sup>

ESPEN: **Additional snacks and/or finger food** is also recommended to facilitate dietary intake in older individuals with malnutrition or at risk of malnutrition.<sup>1</sup>

## Recommendation 7

The individualised nutrition care plan provided should include the following information:

3. **Strategies to achieve target weight** (i.e., food fortification, small frequent meals, nourishing fluids, and oral nutrition supplements [ONS])
4. **Duration of nutrition intervention**

ONS can improve intake of nutrients without reducing nutrient intake from food in older malnourished adults after discharge.<sup>1</sup>

### ESPEN Guidelines recommendations - ONS

#### Recommended for:

- older adults with malnutrition / at risk of malnutrition<sup>2</sup>
- polymorbid medical inpatients with or at risk of malnutrition<sup>3</sup>
- patients who have undergone surgery<sup>4</sup>
- cancer patients<sup>5</sup>
- ICU patients<sup>6</sup>
- older adults with malnutrition or at risk of malnutrition after discharge.<sup>2</sup>

ONS offered to older adults should provide **at least 400 kcal/day including 30 g or more protein/day** and that it should be **continued for at least 1 month before re-assessment** for effectiveness.<sup>2</sup>

In hospitalised older adults aged 65 and above with two or more chronic diseases, nutritional support should **continue for at least 2 months** if they are at high risk or have established malnutrition.<sup>3</sup>

### Recommendation 7

The individualised nutrition care plan provided should include the following information:

5. Dietetics follow-up appointment
6. Updates on nutrition care progress for primary care physician.

Nutritional interventions should be **reviewed regularly by dietitians** and **continued until target dietary intake and target weight are achieved**.

**Timely follow-up** is thus needed to:

1. Monitor outcome of the interventions
2. Re-assess nutritional status
3. Re-adjust interventions if they are unsuccessful.



Adopt a simple nutrition care discharge checklist

Provide an individualised discharge nutrition care plan to patients/caregivers prior to discharge

Inform primary-care physicians about the nutrition care needs of the discharged patients.

## Recommendation 7

# Template for nutrition care discharge checklist

Nutrition Care Discharge Checklist

Discharge Planning Process	Steps and Documentation	Tick Box and Date Completed
Patient Weighed	1. On admission 2. During admission 3. At discharge	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
Nutrition Screening	1. On admission 2. During admission 3. At discharge	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
Nutrition Screening Status	1. Not at risk 2. At risk of malnutrition	<input type="checkbox"/> _____ <input type="checkbox"/> _____
Dietitian Referral	1. Not required 2. Done	<input type="checkbox"/> _____ <input type="checkbox"/> _____
Nutrition Status at Discharge	1. Nourished 2. At risk of malnutrition 3. Malnourished	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
Individualised Nutrition Care Plan Provided to Patient/Family	1. Not required 2. Provided	<input type="checkbox"/> _____ <input type="checkbox"/> _____
Memo to Relevant Multidisciplinary Team for Nutrition Care	1. Physician/Surgeon 2. Physiotherapist 3. Speech Therapist 4. Medical Social Worker 5. Others _____	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____

Education on Post-Discharge Nutrition Care	1. Patient 2. Care-giver 3. Family	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
Post-Discharge Nutrition Follow-up Plan	1. Dietitian 2. Speech Therapist 3. Polyclinic/GP 4. Physician/Surgeon 5. Others _____	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____

## Recommendation 7

# Template for a discharge nutrition care plan

Nutrition Care Plan	
<u>(Name of Hospital)</u> Nutrition & Dietetics Nutritional Care Plan	Patient name: NRIC:
Date:	
To: Patient/Family/Caregiver	
Nutritional Goals	
Estimated Nutritional Requirements	Energy Requirement [kcal/kg/day]: Protein Requirement [g/kg/day]: Fluid Requirement [mls]:
Recommended Nutritional Plan	
Dietary strategies to increase oral intake 1. 2. 3. 4. 5.	
Diet Texture	<input type="checkbox"/> Regular <input type="checkbox"/> Easy to Chew <input type="checkbox"/> Soft and Bite Sized <input type="checkbox"/> Minced and Moist <input type="checkbox"/> Pureed
Fluid Consistency	<input type="checkbox"/> Thin <input type="checkbox"/> Mildly Thick <input type="checkbox"/> Moderately Thick <input type="checkbox"/> Extremely Thick
Nutritional Supplements (if applicable)	
Name of Nutritional Supplement	
Prescribed Volume and Frequency	
Follow Up	
Clinic Location	
Review Date and Time	
Dietitian Contact Information	Dietitian Name: Hospital: Contact Number: Email address:

## Recommendation 7

# Template for a memo to primary care physicians

MEMORANDUM FOR NUTRITIONAL CARE AFTER DISCHARGE  
(For Primary Care Doctors)

Date:

To: Primary Care Doctor

This patient [patient name], with NRIC [NRIC number], is [at risk of malnutrition / malnourished] and has been recommended the following nutritional plan:

Recommended Nutritional Plan
1.
2.
3.
4.
5.
6.

The patient will be reviewed on [date and time] at [clinic location].

\_\_\_\_\_  
[Dietitian Name]  
Nutrition & Dietetics Department  
[Hospital]  
[Contact number]  
[Email address]



*Recommendation 8*

Dietitians, physicians, nurses, physiotherapists, speech therapists and medical social workers should collaborate in the planning and delivery of an after-discharge nutrition care plan.

**Dietitians**

- Play a key role in the development of after-discharge nutrition care plan.<sup>1-3</sup>
- Aware of all available options related to provision of nutritional support and follow-up in their institutions
- Educate patients and caregivers about the importance of the after-discharge nutrition care plan

**Physicians  
Surgeons**

- Emphasise to patients and their caregivers the significance of nutrition as part of routine clinical care and the importance of adhering to nutrition advice and after-discharge follow-up plans
- Primary care physicians also need to be aware of the nutrition care needs of patients to ensure continuity of nutrition care.

**Nurses**

- Reinforce the importance of nutrition, ensure that patients and their caregivers understand the after-discharge nutrition care plan, and remind them about after-discharge follow-up plans.

*Recommendation 8*

Dietitians, physicians, nurses, physiotherapists, speech therapists and medical social workers should collaborate in the planning and delivery of an after-discharge nutrition care plan.

**Physiotherapists**

- Their contribution is often overlooked but nutrition and physical therapy have synergistic effects in improving health and function.<sup>4</sup>
- Educate patients on physical rehabilitation and exercises for bone and muscle health.

**Speech therapists**

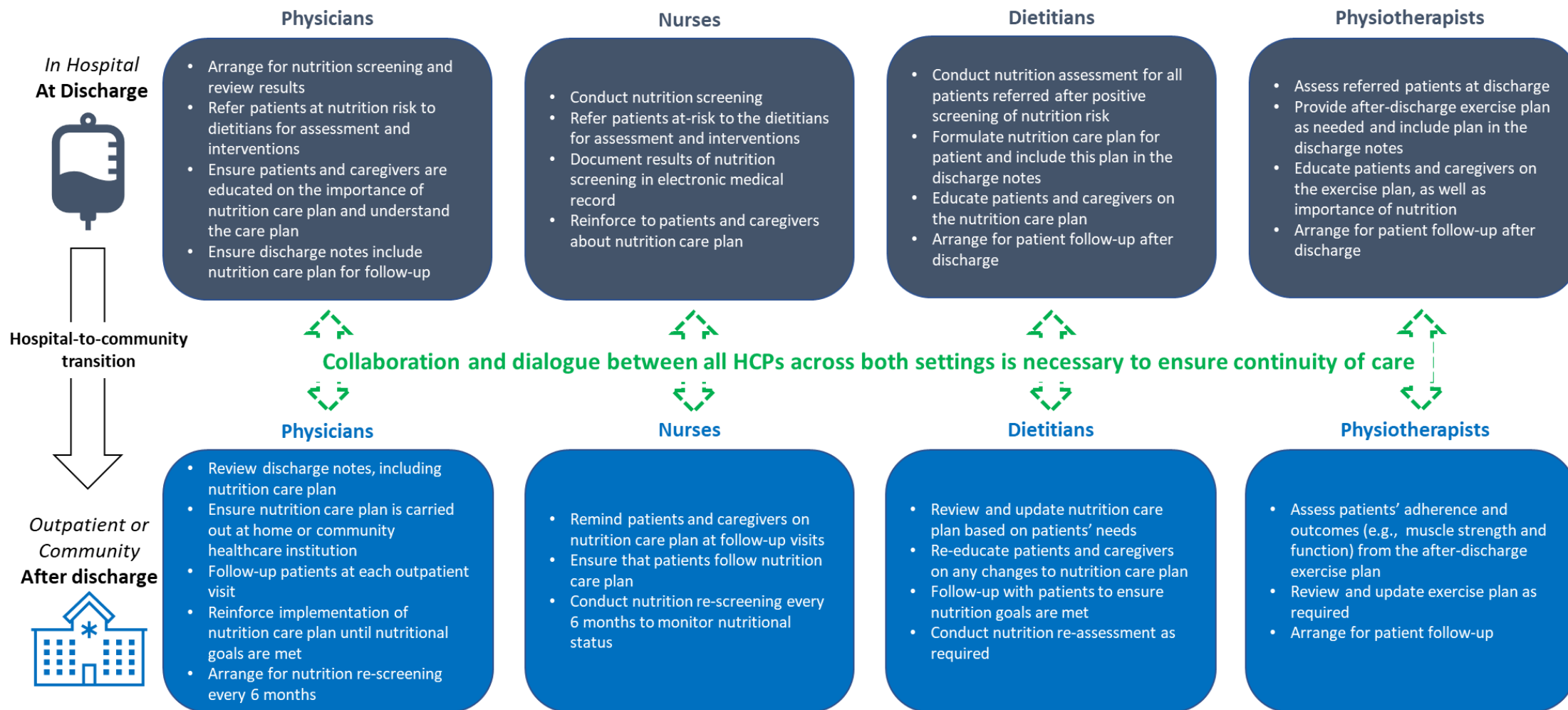
- Assess swallowing problems that result in inadequate dietary intake.<sup>5</sup>
- Work with dietitians to determine the appropriate diet consistency or texture to optimise intake.<sup>5,6</sup>

**Medical social workers**

- Provide support to patients and caregivers in terms of financial assistance
- Liaise with community care providers to facilitate a smooth transition from hospital to community.

# Summary - Roles of HCPs in planning, delivering and implementing a nutrition care plan during hospital-to-community transition

**Support for implementation:** education for all HCPs; embed nutrition screening in electronic medical records at discharge; inclusion of nutrition care plan in the discharge protocol; ensure automatic referral of patients at-risk to dietitians; proper documentation of nutrition care plan in discharge notes; regular audits on nutrition screening and referral process.



**Support for compliance and follow-up:** consolidation of multiple specialist appointments; telehealth follow-up consultation; patient self-assessment using smartphone applications for nutrition and muscle health screening.

*Recommendation 9*

Patients and their caregivers should be provided with adequate education related to after-discharge nutrition care.

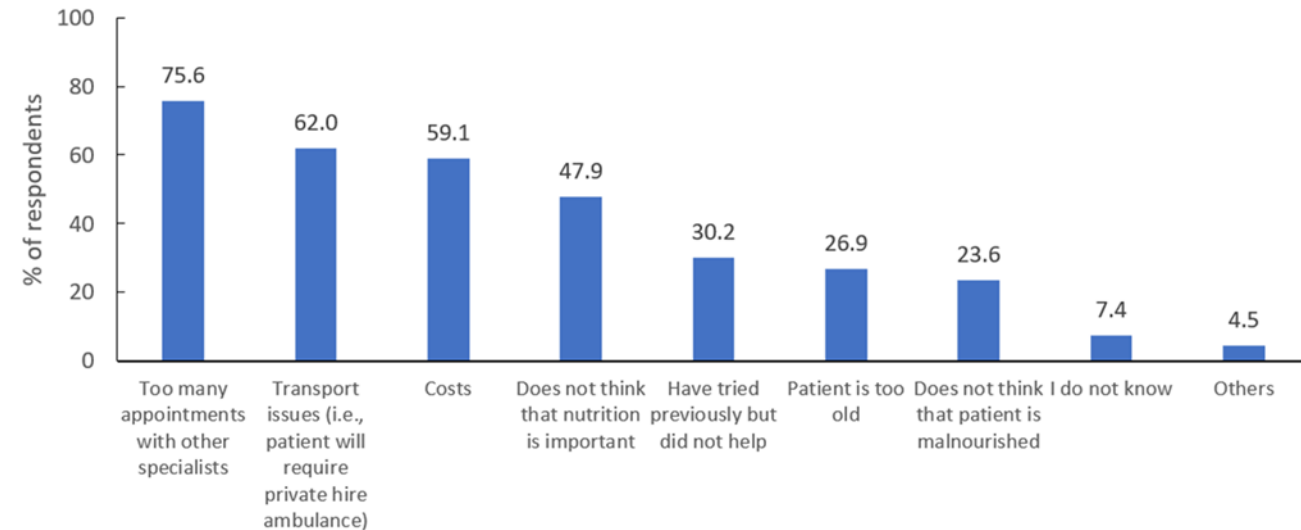
A Singapore study suggest that an **Ambulatory Nutrition Support model** for after-discharge nutrition care (includes telephone calls and home visits in addition to outpatient clinics) may address the challenge of low follow-up rates after discharge, leading to better nutritional status and outcomes.<sup>1</sup>

### Insights from survey

If patients and their caregivers are not aware of the negative impact of malnutrition after discharge, they **may not perceive nutrition as being important to their health.**

This may **hamper uptake and compliance with nutritional interventions after discharge.**

**Figure S3.** Common reasons given by patients or caregivers for declining post-discharge nutritional care.



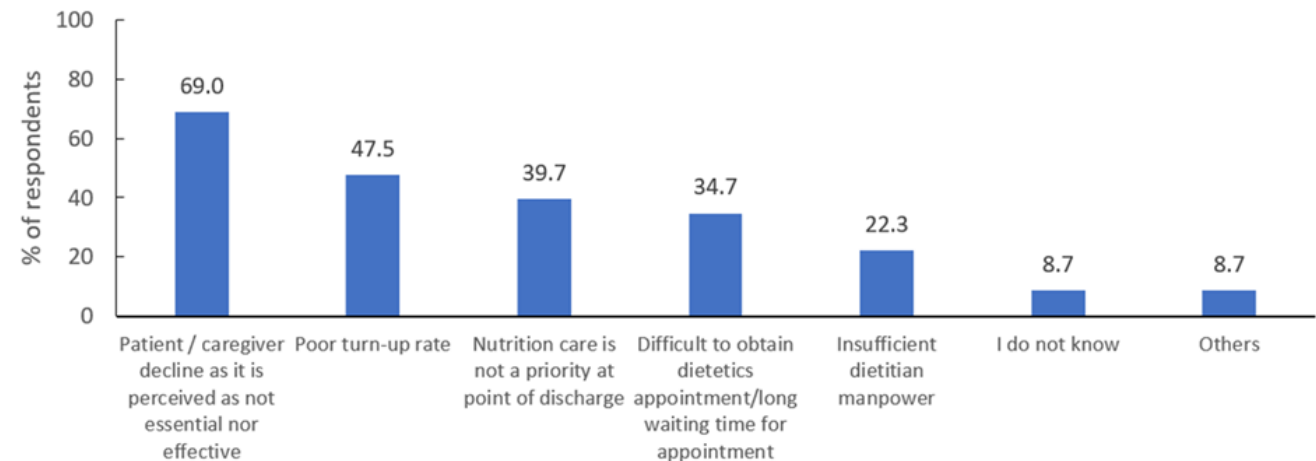
*Recommendation 9*

Patients and their caregivers should be provided with adequate education related to after-discharge nutrition care.

### Insights from survey

The lack of awareness of the importance of nutrition may also result in **negative perception towards nutritional interventions**, which in turn may cause patients and/or their caregivers to decline follow-up dietetic appointments.

**Figure S4.** Barriers to providing follow-up dietetic appointments following discharge.



Patients and their caregivers need to understand the **importance of nutrition and exercise** - this helps facilitate their active participation in improving their nutritional health during hospital stay. They also need to **understand the after-discharge care plan and the importance of adhering to it**.



Simple, easy-to-understand written materials (e.g., brochures) or access to free resources (e.g., via mobile phone app or telehealth consultation) on nutrition should be made available to all patients and their caregivers at discharge.

*Recommendation 10*

Collaborations amongst public health institutions, community healthcare partners, and community support groups are needed to support the continuum of care for patients.

Proper discharge planning should support the recovery process of patients in the community, but the liaison between hospital, primary care and community services are often lacking.<sup>1</sup>

Hospital-to-community transition **should incorporate dialogue and liaison between all key stakeholders** (dietitians, physicians, nurses, physiotherapists and medical social workers) between both setups.

A qualitative study by the Dutch Malnutrition Steering Group suggests **identifying a coordinator for nutrition care as an important way to improve collaboration and communication across healthcare settings.**<sup>2</sup>

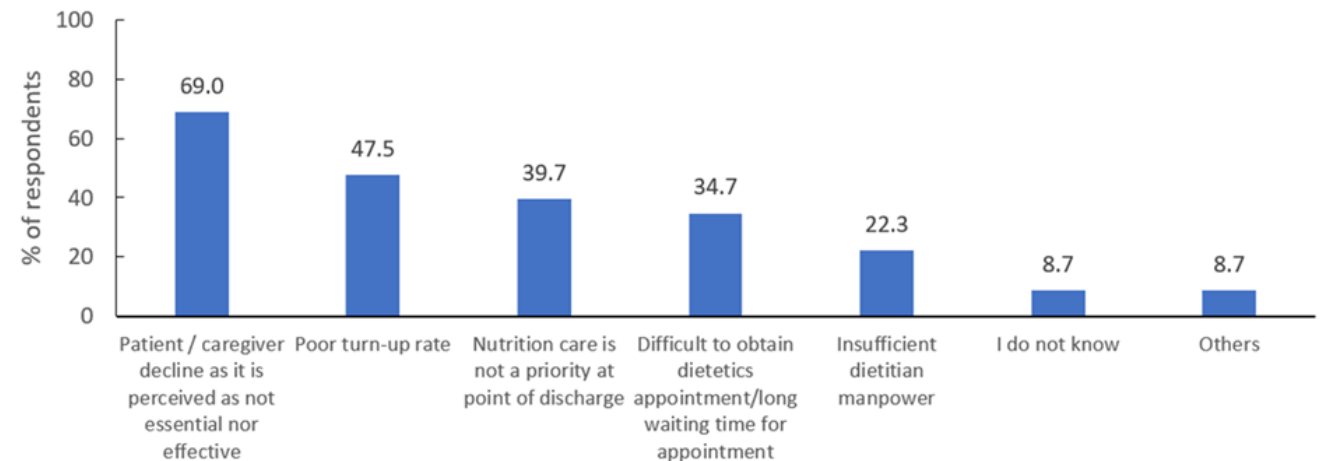
*Recommendation 10*

Collaborations amongst public health institutions, community healthcare partners, and community support groups are needed to support the continuum of care for patients.

**In Singapore:**

- There is **currently no referral pathway** where discharged patients who are malnourished or at risk of malnutrition can continue to receive nutritional care and interventions.
- **Structural support** for the transition of nutrition care from hospital to community **is lacking**.

**Figure S4.** Barriers to providing follow-up dietetic appointments following discharge.



**Insights from survey**

There is a **demand for more dietitians** to care for patients in the community.

# Implementation of best practice recommendations depends on education and collaborative efforts among various stakeholders, as well as government policy in funding

**HCP education**, including primary-care physicians, to improve awareness and knowledge on the importance of nutrition:

1. HCPs should be encouraged to attend local courses on nutrition support.
2. Provide adequate nutrition education early during undergraduate medical training

**Public education** on fundamental concepts:

1. Maintaining good nutritional health is essential to living well and strong
2. Proper nutrition and vitality is key to an independent and meaningful life across all ages

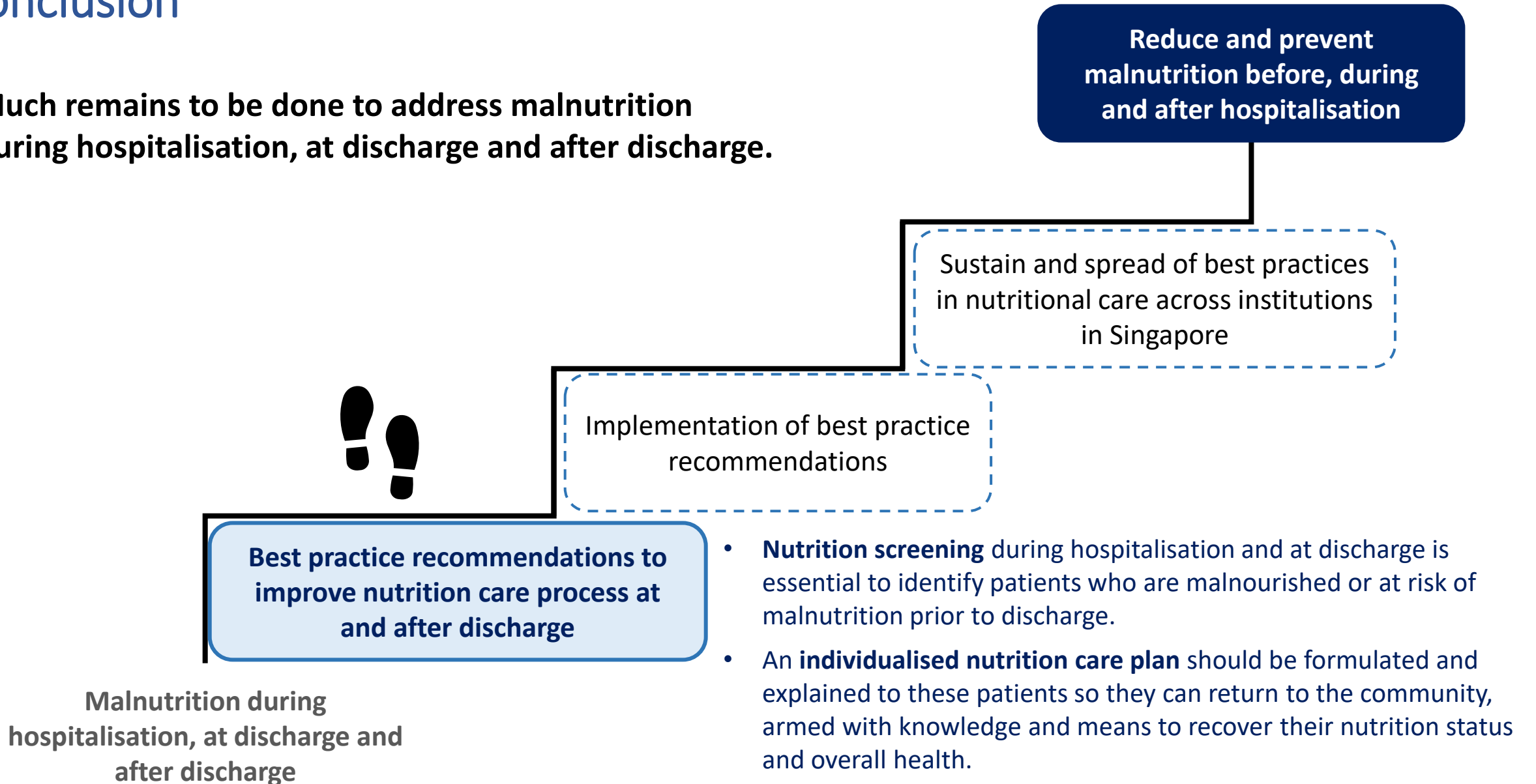
**Concerted efforts by policy makers, healthcare institution leaders and HCPs:**

1. Raising awareness and investing in education and training
2. Increasing focus on collaboration during care transition from acute settings to the community/primary care setting
3. Making malnutrition as one of the key performance indicators for healthcare
4. Involvement of Ministry of Health as a major stakeholder in promoting and advocating the importance of nutritional health for all patients.



# Conclusion

Much remains to be done to address malnutrition during hospitalisation, at discharge and after discharge.



# Nutrition Care after Hospital Discharge in Singapore



Article

## Nutrition Care after Hospital Discharge in Singapore: Evidence-Based Best-Practice Recommendations

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Thank you!