# Becoming "Food Aware" in Hospital

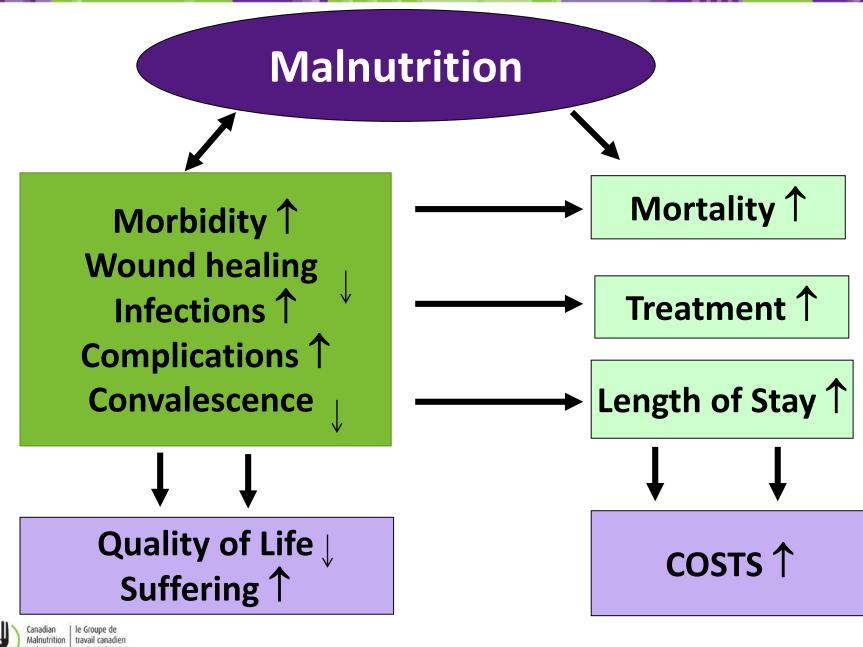
Strategies to improve food intake and the nutrition care culture



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### Hospital Malnutrition in Canada

- Almost 1 in 2 medical or surgical patients who stay 2+ days are malnourished at admission (Allard et al., 2015)
- Less than ¼ of patients see a dietitian, most of these patients are not malnourished; 75% of malnourished are missed (Keller et al., 2015)
- Malnutrition at admission extends length of stay by ~3 days
- Patients who deteriorate have a longer length of stay (medical 18 days; surgical 12 days) (Allard et al., 2016)
- 2/3 of patients leave in the same nutritional state as admitted while 1 in 5 gets worse (Allard et al., 2016)



# Hospital Malnutrition in Canada

- Poor food intake (≤50%) in the first week of hospital stay occurs for ~35% of patients (Allard et al., 2015)
- Poor food intake during admission predicts length of stay when adjusted for other covariates such as malnutrition at admission (Allard et al., 2015)
- 77% of physicians agreed that using dietitian expertise more extensively would be helpful (Duerksen et al. 2016, JPEN)
- Over 50% of nurses thought malnutrition occurred in
   <25% of patients (Duerksen et al. 2016, JPEN)</li>



#### Barriers to Food Intake

- Organizational (noise, interruptions)
- Choice (meal timing, limited menu selection)
- Food access/hunger (lack of food availability)
- Eating difficulties (opening packages, reaching food)
- Quality/choice/satisfaction with food (taste, appearance, smell)
- Effect of illness on food intake (poor appetite, pain)



### Organizational Barriers to Food Intake

- Disturbed by activities, noises or unpleasant smells (38.9%)
- Interrupted by the hospital staff(41.8%)
- Missed meals by not being available when they were served (19.9%)
- Missed meals because of avoiding food for tests (34.7%)
- When meals missed, not give hospital food by staff (Patients answered 'did not miss a meal' excluded) (69.2%)
- Did not get help when needed (restricted to patients who needed help)
   (42.2%)
- Did not want food that had been ordered\* (58%)
- Did not receive ordered food\* (27.6%)



#### Choice

11.9% Meals not served at times that suit patient

3.9% Do not understand how to complete the menu selection sheet\*

Not being able to choose preferred foods\*

36.9% Not enough information on menu to make selection\*



### Hunger

- 30.1% Visitors bring in food because patient is hungry
- 24.4% Become hungry between meals that are too far apart
- 11.5% Felt hungry but could not ask staff for food
- 12.2% Felt hungry and wanted something to eat but no food was available from the hospital



# **Eating difficulties**

27.2%	In an uncomfortable	position to eat

19.7%	Difficulty rea	aching	food
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- **16.1%** Difficulty cutting up food
- 30.1% Difficulty opening packets/unwrapping food
- 8.7% Difficulty feeding self
- 7.4% Not enough time to eat all the food
- 7.8% Needed help to eat meals



# Quality/satisfaction with food; dissatisfied with:

**28.8%** Taste

**16.3%** Appearance

**18.1%** Smell

**19.4%** Portion Size

**21%** Temperature of food



#### Effect of Illness on Food Intake

63.9% Loss of appetite

42.7% Sickness

**41.1%** Tired

**37.4%** Pain

**25.1%** Worried

20.0% Depressed

**17.1%** Breathing difficulties

**15.2%** Chewing or swallowing difficulties



### **Shared Responsibility**

Being "Food Aware" in hospital is the responsibility of:

- ✓ All hospital staff, including senior management
- √ Volunteers
- ✓ Patients
- √ Families/Friends

# Strategies: Correcting Knowledge Barriers

- Education and training for all staff including hospital management on their role in preventing malnutrition.
- Key opinion leaders communicate messages effectively to stimulate change in behaviour of other staff.
- Reminders put in place to convert training into routine practice and sustaining changes.
- Institute policies that promote focus on patient food intake at meal time.



# Strategies: Promoting Food Intake of Patients

- Have staff (potentially a diet technician) identify food preferences, help with filling in the menu, and communicate these to food services.
- Staff and families/friends should know that mealtimes need to be focused on eating meals and nourishments.
- Staff and family/friends need to encourage food intake.
- When possible, encourage patients to eat with a group of patients or family/friends.
- Meal interruptions for tests or other medical procedures should be avoided.



# Strategies: Preventing Barriers to Eating

- Sit patient in chair or position upright in bed
- Ensure bedside table is cleared for tray set-up, open packages, provide assistance to eat, if needed
- Promote a pleasant eating environment by considering the noise, smells and other environmental barriers to food intake
- Ensure vision and dentition needs are addressed
- Provide nausea, pain, constipation control
- Monitor for signs of dysphagia



# Strategies: Food Provision

- Ensure food is available at all times of day, especially when a meal is missed
- Encourage family to bring preferred foods from home that are nourishing; provide safe storage for these foods
- Staff should be aware that oral nutrition supplements
   (ONS) are appropriate in some cases, but there are
   benefits associated with meals that ONS cannot provide
- Consider in-between meal snacks to support food intake



# Strategies: Monitor and Report

"Staff/family/friends and the patient need to monitor food intake and when it is low, implement advanced strategies to support food intake, such as snacks or special supplements"

#### **Monitor:**

- √ Food/meal intake
- ✓ Weight weekly
- ✓ Duration of NPO/clear fluid intake
- ✓ Hydration status
- ✓ Appetite



# Strategies: Transitioning Malnourished Patients to Home

- Educate patients and families/friends on the importance of nutrition during and post hospitalization
- Include nutrition status and treatment prescription in discharge plans to ensure follow-through of treatment into the community
- Provide specific guidance around monitoring body weight and appetite and what to do if these continue to be poor at home



# Summary

- Making a hospital "food aware" requires a multi-level approach.
- Potential barriers to food intake should be recognised.
- Strategies to address these barriers need to be implemented.
- Hospitals require a culture that supports the nutritional needs of patients.
- Becoming "food aware" in hospital is the shared responsibility between hospital staff, management, patients and their families.



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