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Starving for Collaboration: Addressing Hospital-Based Malnutrition and the Power of Teams

Speakers

Leah Gramlich, MD, Professor of Medicine, Ualberta Roseann Nasser, MSc, RD, Saskatchewan Health Authority Moderator: Sue Owen, Impreza Consulting





Synergies in action: The power of collaboration

Starving for Collaboration: Addressing hospital-based Malnutrition and the power of Teams

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Disclosures



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Dr. Leah Gramlich:

- Speaker: Abbott, Baxter, Fresenius Kabi, Takeda
- Consultant: Abbott, Baxter, Fresenius Kabi, Takeda

Roseann Nasser

Co-Chair, Canadian Malnutrition Task Force

Susan Owen

Canadian Malnutrition Task Force (CMTF)



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About Us.....

We are a group of clinicians, decision makers, and researchers that advance nutrition care across all health sectors through research, education, advocacy and interdisciplinary collaboration in Canada

CMTF is the **national voice** for addressing malnutrition across Canada

Canadian Nutrition Society is the official society and governing organization for CMTF

Our Agenda for Today



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- 1. Share CMTF's knowledge and experience regarding Malnutrition
- 2. Seek your advice how can healthcare leaders address Malnutrition?
- 3. Invite you to work collaboratively to address Malnutrition
- Raise awareness Learn that Malnutrition Care will advance organizational priorities

| Agendas | at | your seats | |
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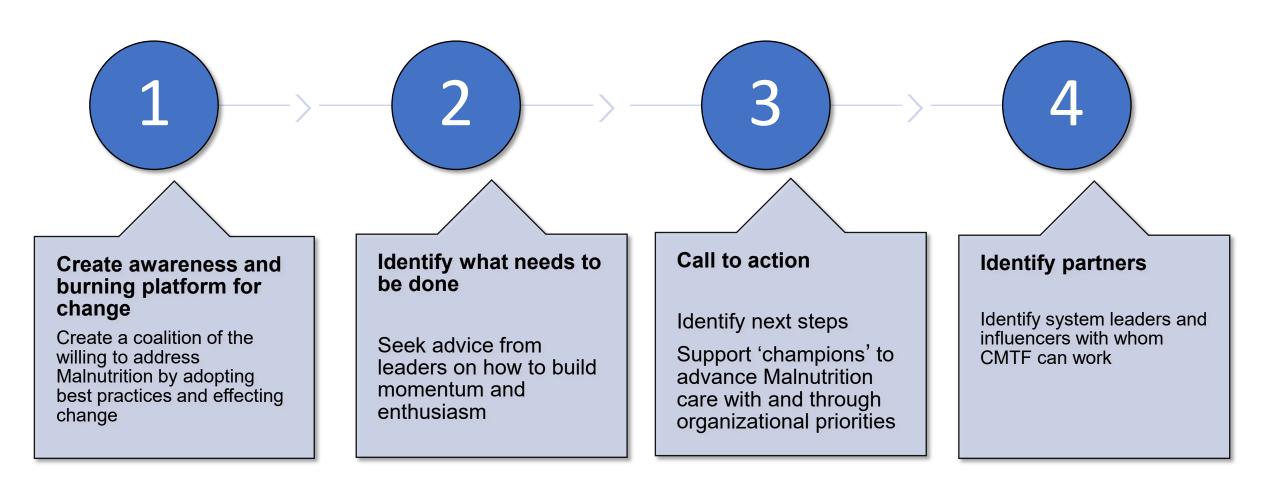
| Time | Approach | Lead |
|-------|--|------------------|
| 11:00 | Session Welcome Sue to welcome audience Leah, Roseann to introduce selves Sue to invite audience members to share their personal objectives for the session | Sue |
| 11:05 | Overview of Hospital-based Malnutrition (increase awareness/understand impact) Create the "burning platform" Overview of the urgency/depth of the issue | Leah/ Roseann |
| 11:45 | What's Working? (Learn from leading practices) - Share success stories – what makes for success? | Leah/ Roseann |
| 12:00 | Looking at Challenges, Ideating on Solutions Small group discussion with facilitated take-up Tables 1-2: How can we create better awareness of malnutrition in healthcare? Tables 3-4: How can we OVERCOME these barriers? Tables 5-6: Best advice to Senior Leaders and Government? | Sue |
| 12:25 | Closing Remarks & Thank you | Sue |

Our Objectives



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By the end of this session...



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We hope you will:

- Understand the magnitude and impact of Malnutrition within your hospitals and healthcare organizations
- Appreciate approaches and implementation strategies to tackle Malnutrition
- Identify your organizational priorities that are linked to Malnutrition: commit and apply nutrition care to address those organizational priorities
- Become a Malnutrition Champion



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Overview of Hospital-Based Malnutrition



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Testing your awareness (Pt. 1)

- Does malnutrition exist in Canada?
- Are hip fractures, pressure injuries linked to malnutrition?
- Do acute and chronic diseases cause malnutrition?
- Do medications and treatments contribute to malnutrition?
- Does the health care system contribute to malnutrition?

Canadian Malnutrition Task Force (CMTF)



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Advancing Nutrition Care in Canada /Améliorer les soins nutritionnels au Canada

www.nutritoncareincanada.ca



www.cns-scn.ca



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The NEED: Why Malnutrition Matters?

What is Malnutrition?

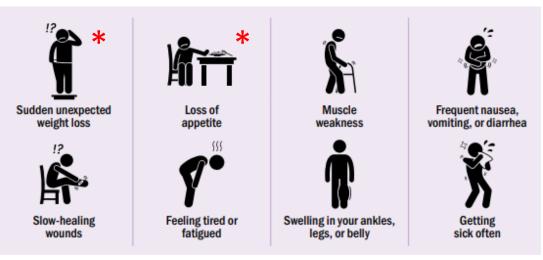


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- Imbalance of nutrients resulting in functional decline.
 - Inadequate intake
 - Impaired nutrient absorption
 - Increased energy expenditure
- It's not always easy to see but easy to <u>screen</u>* for.
- There are serious consequences for a patients and for health systems.

Warning Signs





Source: https://www.nutritioncare.org/uploadedFiles/Documents/Malnutrition/MAW_2021/Consumer-Info-Sheet-Geriatrics-8.5.21.pdf -

What does malnutrition look like?



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- Size 10 to Size 2 in short time fram
- Returning not eaten food trays
- Not being able to get up and walk
- Learning to eat again and re-walk
- Developing pressure injuries withir minutes
- It is a loss of hope



André Picard 🤣 @picardonhealth · Jun 17

17 9

'When Am I Coming Home?': The front lines of the #Covid19 fight have shifted from I.C.U.s to recovery wards where the sickest patients relearn how to walk and eat without choking, by @JoeKGoldstein nytimes.com/2020/06/17/nyr... via @nytimes #rehab



'When Am I Coming Home?': A Tough Month Inside a Virus Recovery ... The front lines of the Covid-19 fight have shifted from I.C.U.s to wards where the sickest patients relearn how to walk and eat without choking. Ø nytimes.com

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• What is the **MAGNITUDE** of malnutrition in Canadian Hospitals?

Incidence in Hospital



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On admission to hospital:







Allard et al JPEN 2016; Belanger et al J Pediatric 2019; Carter et al Can J Diet Pract Res 2019

In Hospital Food Intake Barriers



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Keller et al., JHND 2015



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Poor food intake is a reality

| | 1 in 3 older adults | has difficulty meeting their nutritional needs |
|---|---------------------------------|--|
| 0 | 30% of adults | eat less than half their food in hospital |
| | 1 in 4 pediatric patients | meets less than 50% of their energy needs |

Allard et al., 2016; Belanger 2019; Ramage-Morin et al Stats Canada Health Reports 2013





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What is the IMPACT of malnutrition in YOUR organization?

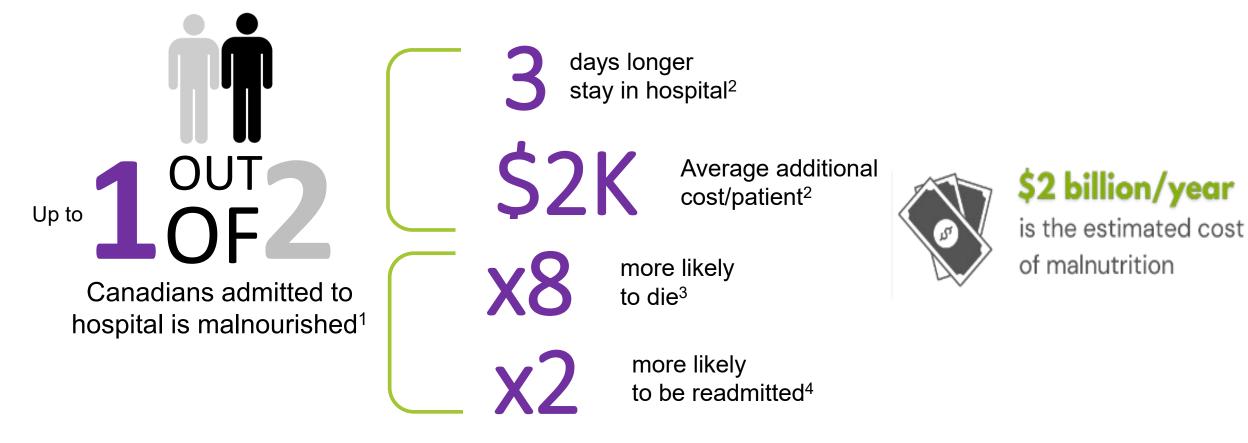
Malnutrition is Costly



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Hospital consequences



1. Allard JP et al JPEN 2015; 2. Curtis LJ et al. Clin Nutr 2016; 3. Fleder S et al. Nutrition 2015; 4. Lim SL et al. Clin Nutr 2012

How else does malnutrition affect the healthcare system?



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- Impact of Malnutrition on Quality & Safety is SIGNIFICANT
- Malnutrition is a risk factor for hip fractures and falls
- Patients with malnutrition are 8x more likely to fall compared to those not malnourished
- Patients (over 50 years of age) admitted to the ER with hip fractures who are malnourished
 - ↑ LOS,
 ↑re-hospitalization
 ↑ resource and treatment costs
 ↑ mortality



O Arlington Orthopedic Ass... Hip - Hip Fractures - A...

Franz et al. 2023

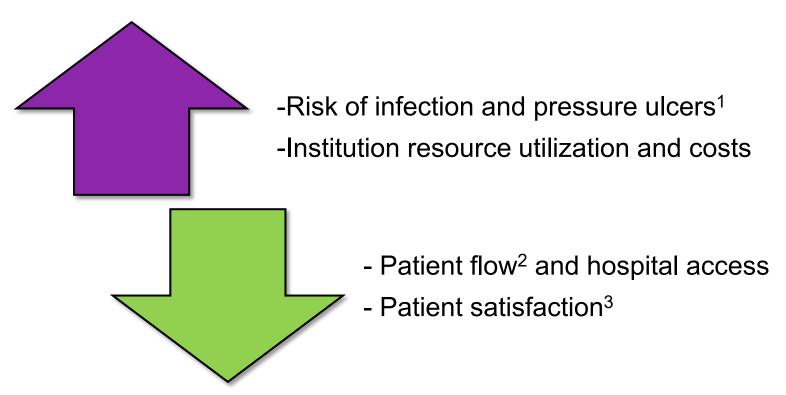
Impact



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Malnutrition Negatively Affects Patients' Safety and Hospital Performance Indicators



. 1. Lim SL et al. Clin Nutr 2012. 2. Keller H et al J Hum Nutr Diet. 2013. 3. Keller HH et al. J Hum Nutr Diet. 2015



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THE SOLUTION Malnutrition can be treated

What works?



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Change in thinking: Food is Medicine, not a budget item

- Systematic screening and early diagnosis for malnutrition
 - (like systematic screening for fall risk and pressure injuries)
- Standardized language

Embedding tools and processes into multidisciplinary team-work

National Standard

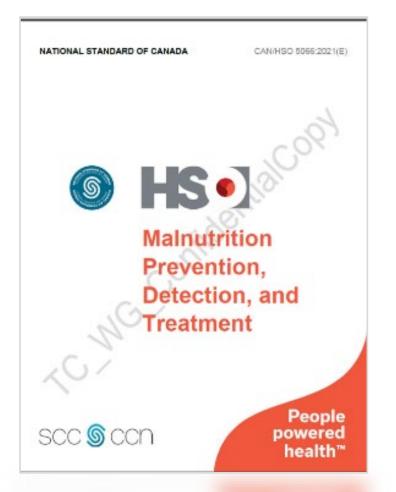


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Malnutrition Prevention, Detection and Treatment Standard (CAN/HSO 5066:2021)

- A National Standard of Canada, recognized by the Standards Council of Canada (SCC)
- Provides acute care organizations with the best practices to address malnutrition in adults and children
- Created in collaboration with CMTF
- Available through each hospital's accreditation team



https://healthstandards.org/standard/malnutrition-prevention-detection-and-treatment

Integrated Nutrition Pathway for Acute Care

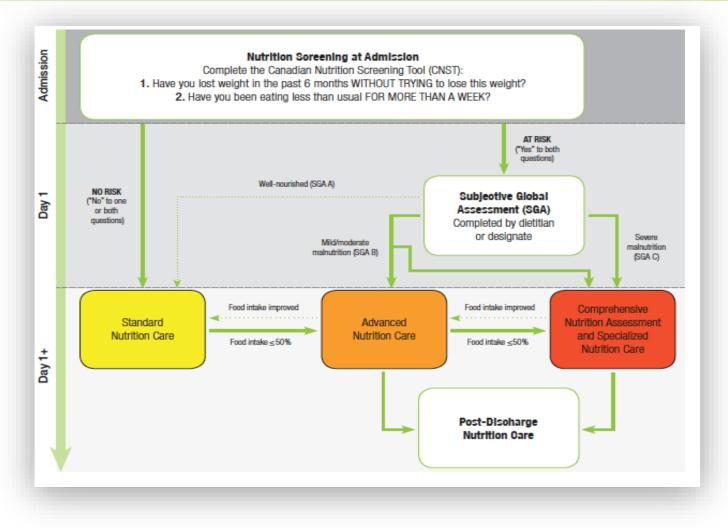


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An evidence-based algorithm for the detection, treatment and monitoring of malnutrition amongst acute care medical and surgical patients

P-INPAC, Pediatric Integrated Nutrition Pathway for Acute Care also exists https://nutritioncareincanada.ca/resources-andtools/hospital-care-inpac/inpac



Optimal Nutrition Care

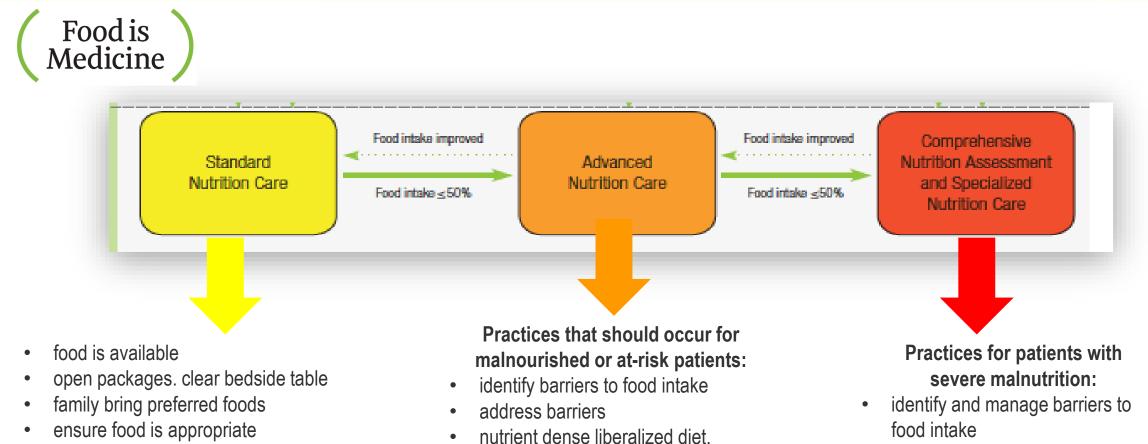
consult dietitian if consuming less than 50

per cent of foods



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preferred foods, snacks between

meals and high energy/protein

shakes/drinks and snacks

- identify and manage eating behaviours to support food intake
- individualized treatment and monitoring

Treatment



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Multiple studies have shown that nutrition interventions in hospital can make a difference in outcomes

Interventions

- Targeted protein and calorie goals
- High quality meals and diet modification
- Address barriers to intake/ protected mealtimes
- Flexible mealtimes/ room service
- Oral nutrition supplements
- Enteral/ parenteral nutrition
- Early feeding

- EFFORT Trial 2019
- Kaegi-Braun 2021
- NOURISH study 2019
- Gomez 2019
- KANEKO 2021 to name a few.....

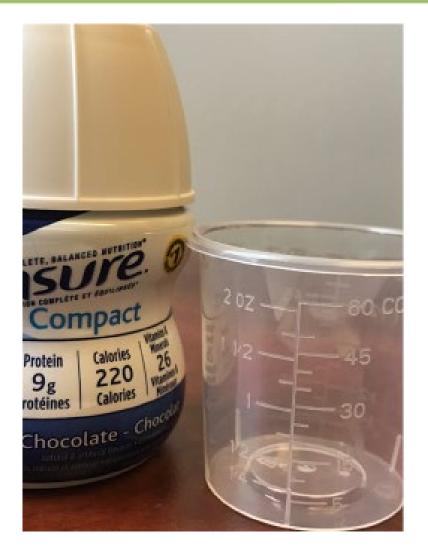
Deutz et al. Clin. Nutr. 2016; Kaegl-Braun et al. JAMA 2021; Schuetz P et al. Lancet 2019; Gomez et al JAMA Network Open 2019; KANEKO et al Am J Cardiol 2021

Treatment: PPO 590



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What do you know about PPO 590?

- Standard Treatment
- 60 mL PO QID 0800h, 1200h, 1600h, 2200h
- 60 mL PO TID 0800h, 1400h, 2200h
- Double Treatment
- (<25% of meals)
- 120 mL PO QID 0800h, 1200h, 1600h, 2200h

Effort Scheutz Lancet 2019



- 23% patients in the intervention group vs 27% in the control group experienced an adverse clinical outcome (adjusted OR: 0.79 [95% CI 0.64–0.97], p=0.02373
- 7% of patients died in the intervention group compared with 10% patients in the control group adjusted OR 0.65 [0.47–0.91], p=0.011).
- There was no difference in the proportion of patients who experienced side-effects from nutritional support between the intervention and the control group (162 [16%] vs 145 [14%], adjusted OR 1.16 [0.90–1.51], p=0.26).

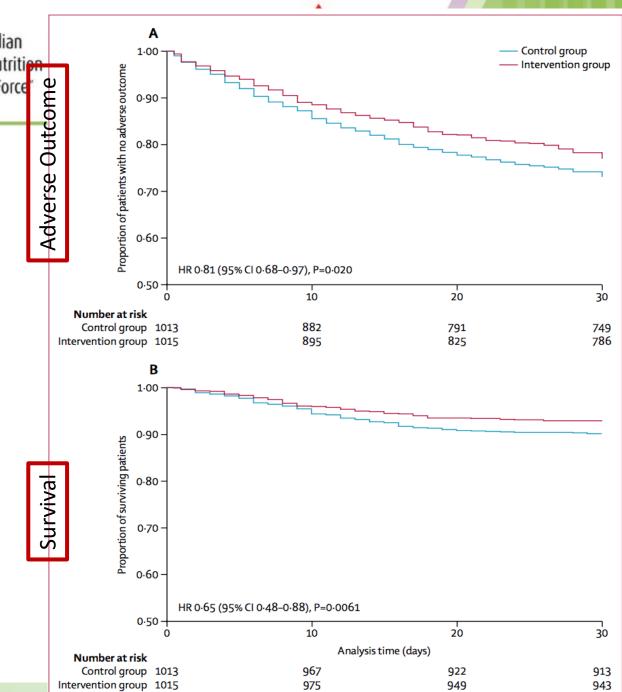


Figure 4: Kaplan-Meier estimates of the cumulative incidence of the primary endpoint and all-cause mortality

Cost savings



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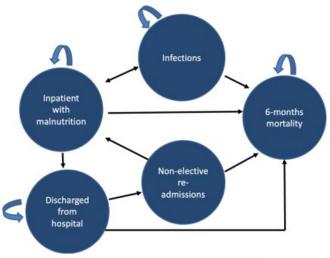


Figure 1 Health states within the Markov model. Designations of health states were based on findings in the meta-analysis report by Gomes *et al.*⁴

| | Life days | | Utilities, QALD | | Cost, US\$ | |
|--|---------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------------|
| Patient state | Nutritional support | No nutritional support | Nutritional support | No nutritional support | Nutritional support | No nutritional support |
| Hospitalised, malnourished | 11.49 | 12.00 | 0.022 | 0.023 | 63 227 | 66 045 |
| Non-elective readmission | 0.14 | 0.17 | 0.000 | 0.000 | 193 | 237 |
| In-hospital with Infection | 0.52 | 0.60 | 0.001 | 0.001 | 4554 | 5374 |
| Discharged from hospital | 162 | 159 | 0.342 | 0.333 | 37 597 | 36 863 |
| Death | 7.74 | 10.27 | | | | |
| Total (sum of health states above) | 174.26 | 171.73 | 0.365 | 0.358 | 105 608 | 108 520 |

Conclusions:

In-hospital nutritional support is a cost-effective way to reduce risk for readmissions, lower the frequency of hospital-associated infections, and improve survival rates

2021 BMJ open Philipp Schuetz ,1,2 Suela Sulo ,3 Stefan Walzer,4,5,6 Lutz Vollmer,4 Cory Brunton,3 Nina Kaegi-Braun,1 Zeno Stanga,7 Beat Mueller,1 Filomena Gomes1,

'More-2-Eat' Study (phase 1)



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What INPAC components were implemented?

In 5 diverse hospitals across 4 provinces

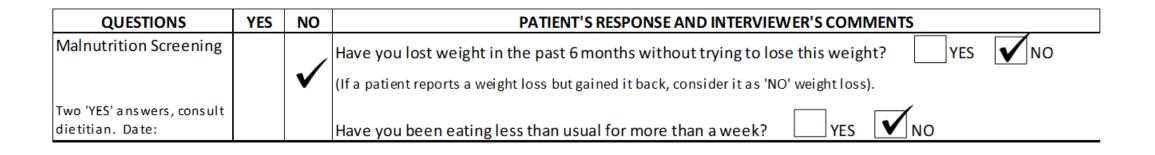


Screening on Admission (



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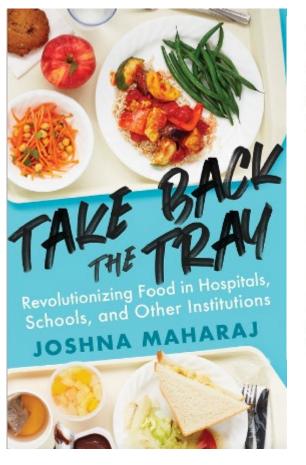
What's Working?

What can be done?



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The Current

Hospital food has a bad reputation. A chef reimagined it — with a focus on healing

Vancouver hospital pilot project introduced more than 20 new meals aimed at getting patients to eat

CBC Radio · Posted: May 17, 2024 2:57 PM CST | Last Updated: May 17



This Korean gochujang bowl is one of more than 20 meals created by celebrity chef Ned Bell for Vancouver General Hospital's Planetary Health Menu Pilot Project. Project co-lead Dr. Annie Lalande says that patients reacted positively to the dishes. (Leila Kwok/Vancouver Coastal Health)

- Culturally appropriate food
- Vancouver Hospital +++
- Nourish Cohort

Tray Ticket

Feet. Clear Fluid Meal Kit Friday- Breakfast Box Meal V 1x Cranberry Juice (114mL foil top) 1x Apple Juice (114mL foil top) 1x Regular Jell-O Cubes 1x Napkin/Spoon 1x Boost 237ML

1x Apple Juice (114mL foil top) 1x Cranberry Juice (114mL foil top) **1x Regular Jell-O Cubes** 1x Napkin/Spoon

Friday --- Supper Box Meal

Friday- Lunch Box Meal

1x Grape Juice (114mL foil top) 1x Cranberry Juice (114mL foil top) 1x Regular Jell-O Cubes 1x Napkin/Spoon

Diet: Clear Fluid

Suitable For:





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Enhanced Recovery After Surgery (ERAS) Surgery SCN

What is ERAS?

Services

ABOUT AHS V

Enhanced Recovery After Surgery (ERAS) standardizes care before, during and after surgery. ERAS helps patients get back on their feet quicker while shortening hospital stays and reducing surgical complications. The implementation of ERAS in Alberta is sponsored by the Surgery Strategic Clinical Network (Surgery SCN[™]).

Each year, more than 280,000 surgeries are performed across Alberta at 55 surgical sites. The Surgery SCN is dedicated to making surgical care in our province efficient and sustainable.

Drawing from best practices and evidence from around the world, ERAS improves patient care related to nutrition, mobility after surgery, fluid management, anesthesia and pain control. ERAS also makes patients part of the team by involving them in preparation for their surgery and post-operative recovery. It aims to help patients stay strong, improve outcomes, reduce complications and create a better patient experience.

Implementation of Best Practices

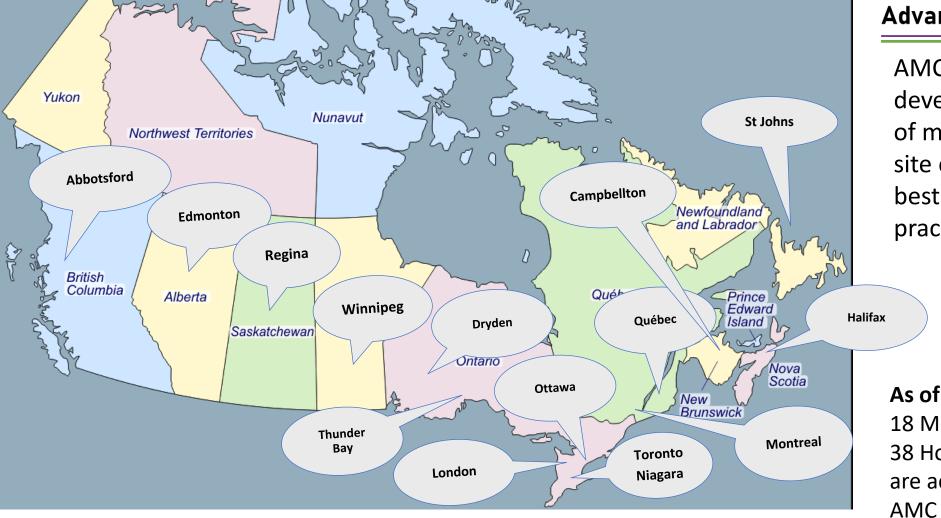


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Advancing Malnutrition Care

AMC is assisting with the development and training of mentors and hospital site champions, to adopt best nutrition care practices



As of Sept 2023 18 Mentors 38 Hospital Champions are actively participating in

What are *your* key priorities?



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- Shorter length of stay?
- Better outcomes?
- Fewer re-admissions?
- Fewer complications?







What most caught your attention or was new for you (so far)?





Looking at Challenges, Ideating on Solutions

Building on Learnings to-

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- Hosting Health Professionals Round Table on Strategy November/23 and April/24
- Advice from leaders from across Canada
- Next Exercise will allow us to listen to and learn from your perspectives, while building on that work



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How can CMTF get the "right information" into the "right hands"?

And we heard...

- Nutrition-based data should be "front and centre"
- Express data in the context of "the known." For example: how does Malnutrition impact LOS or ALC? What are the associated costs?
- Add value by connecting malnutrition to known quality/safety indicators. For example: How does Malnutrition impact falls or wound care? What are the associated costs?



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For Today:

How can we create BETTER AWARENESS of malnutrition in healthcare?



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What are the barriers to action? Why are leaders not aware of Malnutrition?

And we heard...

- Nutrition-based data does not often "bubble up" to the corporate reporting/scorecard
- Most organizations do not connect nutrition-based (or Malnutrition-based) data to Length of Stay, ALC, etc.
- Many organizations outsource food services difficult to make changes to contracts



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For Today:

How can we overcome these BARRIERS?



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With whom should CMTF connect?

And we heard...

- Utilize community-based organizations who serve populations at risk of malnourishment
 - **Community-based organizations** e.g. Faith-based groups and community service agencies
 - Hospital-based
 - Leverage hospital-based quality and risk resources to formalize risk profiling and screening
 - Engage with hospital-based Patient and Family Advisory Councils to connect Malnutrition to the patient experience



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For Today:

What is your best advice when speaking with Government?







- Tables 1-2: How can we create BETTER AWARENESS of malnutrition in healthcare?
- Tables 3-4: How can we OVERCOME these barriers?
- Tables 5-6: BEST ADVICE when speaking with Government?





Results of Small Group Discussion





Thank you!