

PIFS Healthy Ageing Event

8th September, 2022; Sutton Bonington, University of Nottingham



This programme has been funded with support from the European Commission. The author is solely responsible for this publication (communication) and the Commission accepts no responsibility for any use that may be made of the information contained therein 2020-1-DE02-KA202-007612

Introduction...

- The outcomes for this event.
- Free knowledge and resources.
- Breakout sessions, feedback forms.
- Explain projects & IOs. (FIC & PIFS)

innovating food for seniors

Event Agenda

University of Nottingham

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Co-funded by the Erasmus+ Programme of the European Union

Time	Event programme	Speaker
9:00 - 9:30	Arrive, Registration & Refreshments	
9:30 - 9:45	Welcome and Introduction What is PIFS and how may you benefit from this project?	Richard Worrall (Head of FIC)
9:45 - 10:15	Healthy Ageing: What is the current status of the Science? What knowledge do we have to provide solutions? What solutions are available now? How UoN and PIFS can help?	Dr. Moira Taylor (Assoc. Professor in Human Nutrition)
10:15 - 10:30	Breakout 1: IO1- Good practice guide	FIC Team
10:30 - 11:00	Healthy Ageing: Elderly Nutrition What are the current issues with elderly people that need addressing? What is required to tackle these issues?	Kirandeep Marsh (Research Dietitian, NHS)
11:00 - 11:15	Tea/Coffee Break	
	Showcase PIFS project & Case Studies	
11:15 -12:45	Breakout Sessions (IO2-IO4) & Review Discussion of project elements and feedback for improvements	FIC Team
12:45 - 13:00	Closing remarks & Lunch	Richard Worrall

Dr Moira A Taylor PhD RD

Associate Professor of Human Nutrition (Dietetics), Faculty of Medicine & Health Sciences



Having initially worked as a registered dietitian in the NHS, Moira has undertaken applied dietetic research for over 30 years alongside training health professionals in the importance of nutritional awareness.

She is committed to ensuring that university-based research techniques such as magnetic resonance imaging, physiological, biochemical and sensory methods are effectively applied to address practical, nutrition related problems in order to improve the quality of people's lives.

Breakout 1: Good Practice Guide

• An introduction to the Good Practice Guide

- IO1 Feedback: What are your thoughts about the guide and its value for your business or organisation?
 - Introducing our Free Open-sourced Online
 Platform



Innovating food for seniors

Evaluation (QR Code)

Evaluation QR Code for each IO:



Evaluation QR Code for the multiplier event itself:

Event:



Innovating food for seniors

Kiri (Kirandeep) Marsh

Research Dietitian from Professor Opinder Sahota's Research Team, Nottingham University Hospitals, Queens Medical Centre, NHS



Kiri Marsh is a Health Care of Older People Research Dietitian at Queens Medical Centre, Nottingham University Hospitals NHS Trust and a Masters in Research Student at the University of Nottingham.

Her current work explores the role of a new high protein, fortified ice-cream, 'Nottingham-Ice cream' ('N-ICE CREAM'), compared to standard oral nutritional supplements in older patients with fractures.



Nottingham University Hospitals NHS Trust

Healthy ageing: Elderly nutrition

Kiri Marsh Research Dietitian Health Care of Older People Research team



Co-funded by the Erasmus+ Programme of the European Union



NHS

Contents

- What is healthy ageing
- Introduction into malnutrition in the hospital
- Nutritional issues
- Solutions
- Research at Nottingham University Hospitals (NHS) Trust



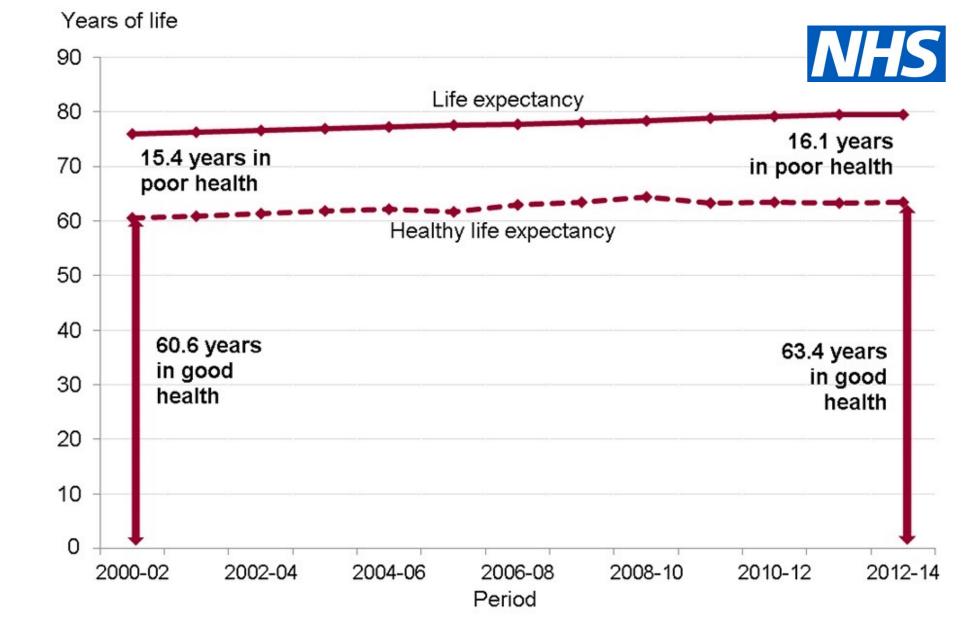
Healthy ageing

The process of developing and maintaining functional ability that enables welling being in older people"

WHO 2020)

Half a million people in their 90s in the UK.

By 2041, one in four people in the UK will be ≥ 65 years old.



Healthy life expectancies and life expectancies from ONS reports, with prevalence of good health derived from their surveys: General Household Survey/General Lifestyle Survey for years 2000 to 2002 up to 2008 to 2010, and the Annual Population Survey for years 2009 to 2011 up to 2012 to 2014.

Significant proportion of later life spent in poor health



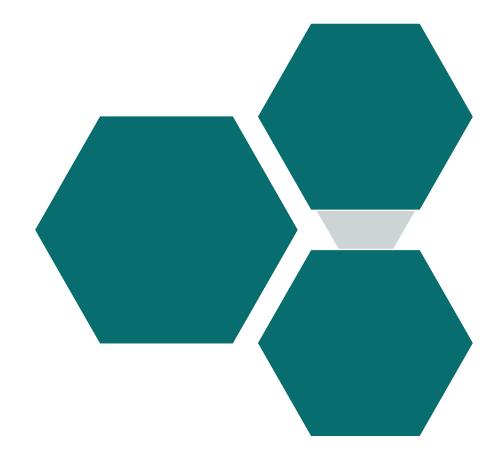
Malnutrition MHS (Undernutrition)

Condition which happens when you don't get the correct nutrients from your diet

- Unintentional weight loss,
- Low body mass index
- Reduced muscle mass
 - Reduced food intake
 - Inflammation or disease burden

Older adults are nutritionally challenged

Malnutrition affects 1.3 million people in UK who are over the age of 65 years



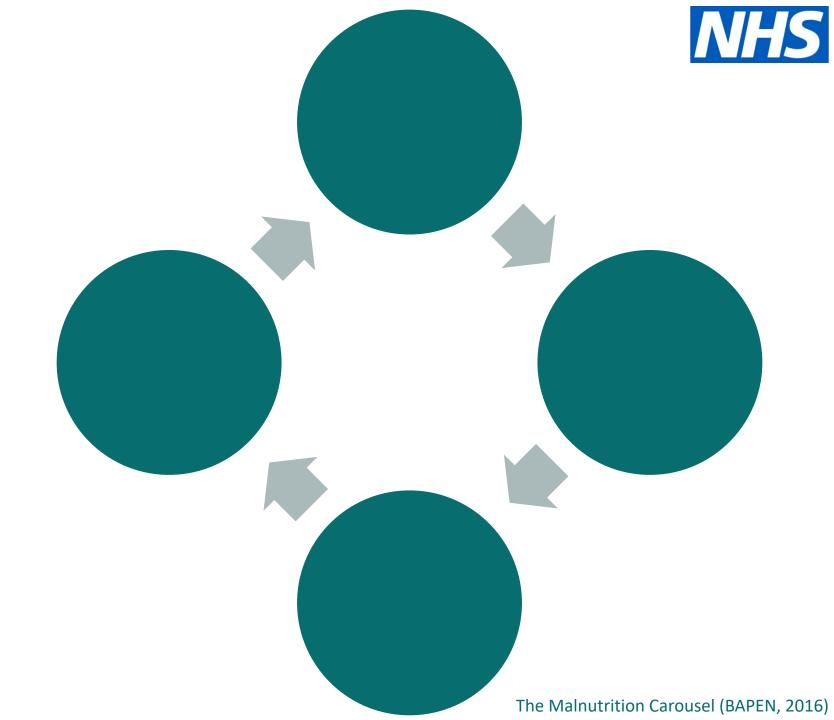




Prevalence of malnutrition on admission to hospital

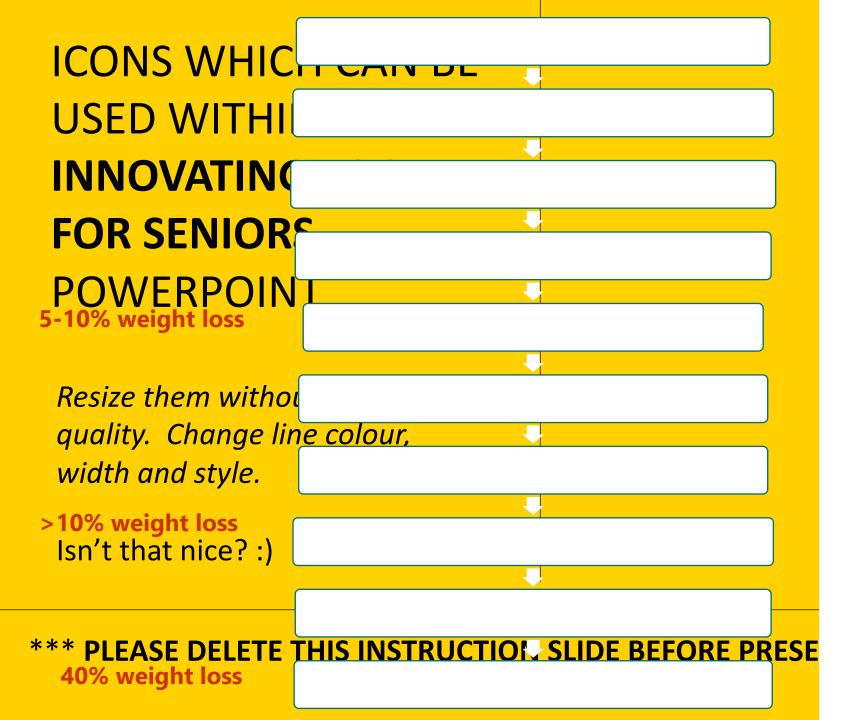


The cycle of malnutrition





Consequences of Malnutrition to patient



NHS

'The Downward Spiral'

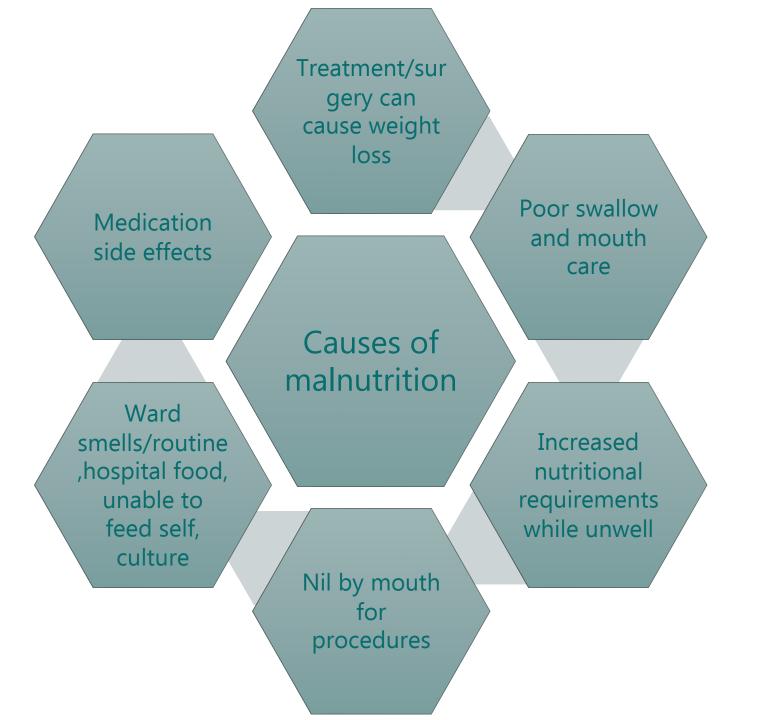




Consequences of Malnutrition to the NHS



So why is malnutrition so common in hospital?



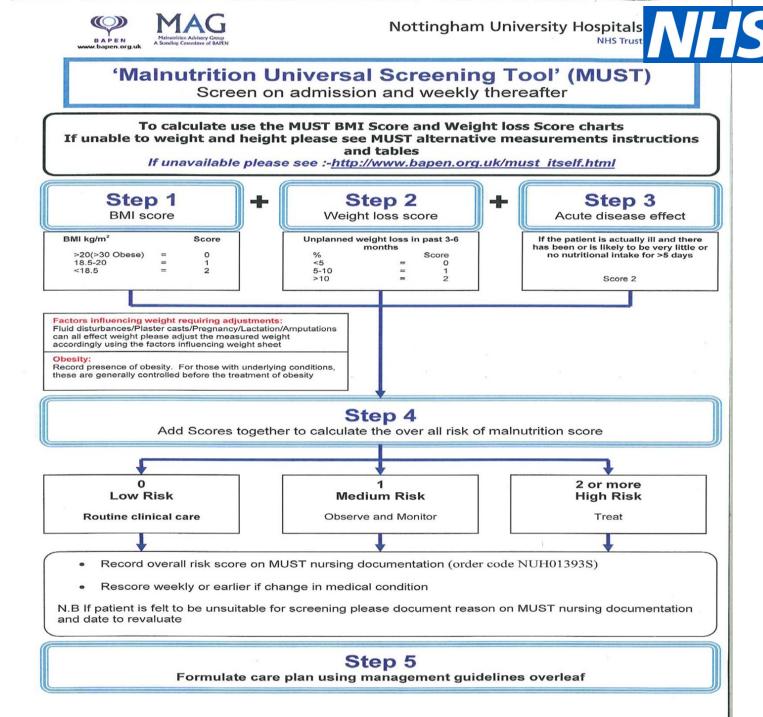
Causes of malnutrition



Strategies and solutions



Detecting malnutrition



NHS

Practical solutions to malnutrition

Protect the mealtimes

Assist with mealtimes

Prepare the environment

Listen

Encourage and prompt



Protected Mealtimes

"Nothing shall be done on a ward whilst patients are having their meal"

Florence Nightingale (1859)

To improve the patient meal time experience

To allow staff to assist and monitor)

Notting University Hosp

Mealtimes Matter – Gold Standard

- Avoid all non-essential activity on wards
- Minimal interruptions at mealtimes except for urgent care

- Staff not involved in mealtime care should keep distractions to a minimum
- Relatives/carers can be encouraged to help where appropriate
- Nursing teams will focus on patients' nutrition and hydration at mealtimes

Standard Operating Procedure for Mealtimes

BEFORE

- Ring bell 15–20 mins before mealtimes
- 2 All clinical staff finish off tasks
- 3 Share any specific information with the Food Service Assistant, meal time volunteer or dining companion
- 4 Arrange alternative meal for patients not on the ward during meal service
- 5 Know which patients need assistance with feeding and allocate nurse
- 6 Ensure patients have opportunity to visit the toilet
- 7 Consider the environment e.g. sit patients up/in chair/take to dining room as per end PJ paralysis
- 8 Clear patients' tables and wipe clean
- 9 Offer hand wipes to patients and help them to use (if necessary)

DURING

- 1 Use a red tray to identify patients who need help and/or who need their intakes monitoring
- 2 If patients require help, only serve meals when a nurse is ready to assist
- 3 Serve main course and pudding separately
- 4 Ensure patients have:
 - Serviette
 - Appropriate drink
 - Correct cutlery
 - Condiments
 - Eating aids/blue crockery if required
- 5 Open packets, cut up food and provide assistance (as necessary)
- 6Check patients are happy with their choice of meal and have everything they need

AFTER

- 1 Complete food charts (where applicable)
- 2 Ask patients: "How was your meal?" (and act on response)
- 3 Update food and drink care plan





Food charts

	Nottingham University atient label or pomplete details Food and Fluid Record Ch	
Ward: (PATIENT LABEL)	Please record all food intake (including snacks/ food and supplements (See example). Also record fiv UNLESS patient is on a fluid balance cha	l from nome, uid intake
Meal	Date: 9 May 2019 Date	Initial
Medi	For Example : % portion of shepherd's ple, % portion peas 2 teaspoons of Ice cream	TW
Early morning drink/snack /supplement	the cup of the - millike no sugar	JTW
Breakfast	Cap of coffee – milk, 2 teaspoons sugar Declined <u>B fast</u>	STR
Mid-morning drink/snack/supplement	Strawbory Build up with somi skimmed milk	RT
Lunch	44 battered fish I scoop mash 44 portion of peas 44 portion of rice pudding 44 cup of tea – milk, no sugar	RT
Afternoon drink/snack/supplement	Cap of coffee - mill, 2 teaspoors sugar	STA
Supper	½ ham sandwich, Jee cream Cup of coffee – milk, 2 teaspoons sugar	KB
Evening drink/snack/supplement	Declined	LG
Meal	Date: 10/5/19 Date	Initial
	For Example : % portion of shephera's ple, % portion peas 2 teaspoons of Ice cream	TW
Early morning drink/snack /supplement	Declined	
Breakfast	% slice toast – butter and jam % cup of tea – milk, no sugar	PF
Mid-morning	Glass of semi skimmed milk Document what	GK

drink/snack/supplement		
Breakfast	% slice toast – butter and jam % cup of tea – milk, no sugar Document	ŦŦ
Mid-morning drink/snack/supplement	Glass of semi skimmed milk what patients	GK
Lunch	½ portion veg lasagne eats (and drinks) Apple pie and custard here!	SH
Afternoon drink/snack/supplement	2 custard cream biscults cup of tea - mille no sugar	DR
Supper	I fishcake Qce cream Cup of tea – milk, no sugar	Я¢В
Evening drink/snack/supplement	Coffee made with full fat milk – 2 sugars Slice of fruit cake (from home)	ST



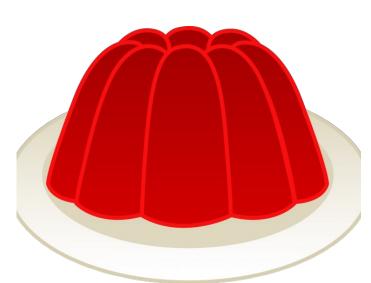








Calpud



Fortijelly

UPDATED FOR 2019

and

New IDDSI framework
Easy to chew coding
Neutropenic diets
Renal diets



Supporting patients with dementia

 Prompting and encouragement Assistance with eating Red tray Allow plenty of time to eat Finger food menu • A 'little and often' approach • Keeping the table setting simple Adapted cutlery



Oral nutritional supplements (ONS)

 Ready made foods/drinks/powders with added energy and protein vitamins and minerals.

• They may also be referred to as build up food / drinks.



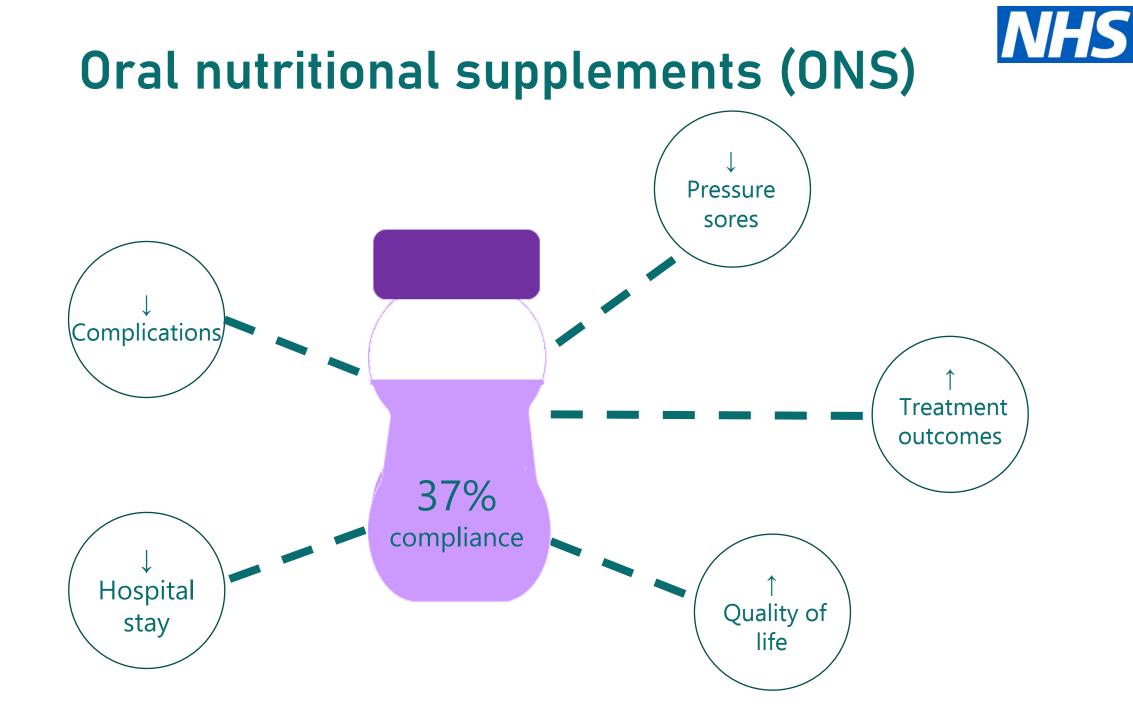


Oral nutritional Supplements (ONS)

• ONS v

- Sty
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- Oral nutritional supplements offered to an older person with malnutrition or at risk of malnutrition, shall provide at least 400 kcal/day including 30 g or more of protein/day.
- Most ONS provide 300kcal, 12g protein and a full range of vitamins and minerals per serving







The Nottingham Ice Cream Project – Food waste and Ice Cream solutions

Queens Medical Centre Nottingham University Hospitals NHS Trust

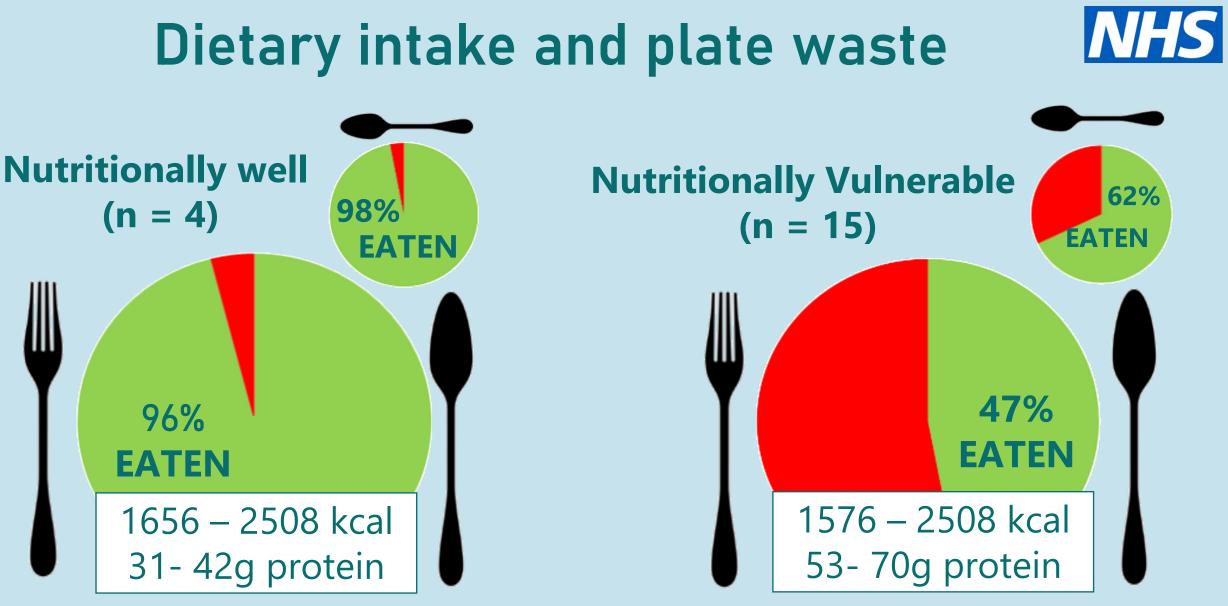
Health Care of Older People Research Team



Nottingham University Hospitals







1592 ± 257 kcal 65.7 ± 8.5g protein 643 ± 354kcal 24.8 ± 14.2g protein



Overall intake

893 ± 533 kcal 35.6 ± 33.8 g protein

To stimulate muscle protein synthesis.... 25- 30g of high quality protein per meal, containing approximately 2.5 – 2.8g of leucine

Food waste in the NHS

- The NHS is the second biggest provider of meal in the UK public sector
 - 141 million inpatient meals are served annually

• One in six hospital meals are wasted

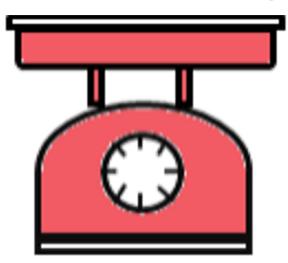


Weighed food waste

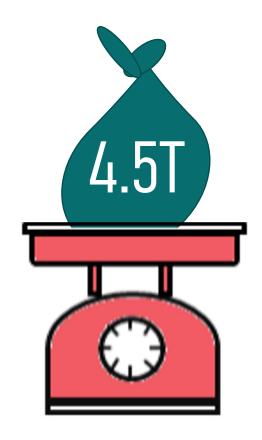
Patients Lunch = 3.17kg Dinner = 2.99kg



Food trolley Lunch = 3.72kg Dinner = 2.51kg

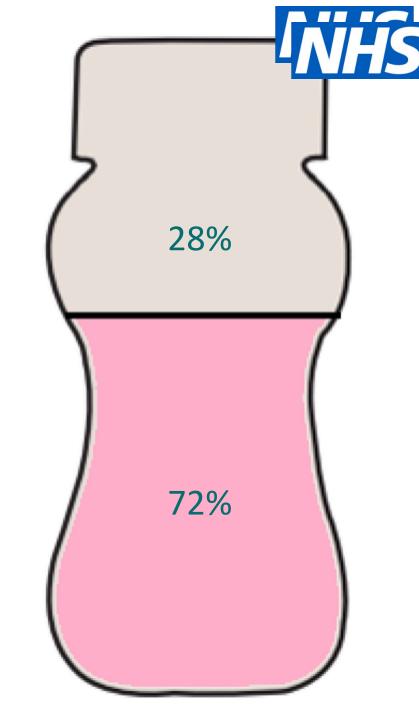




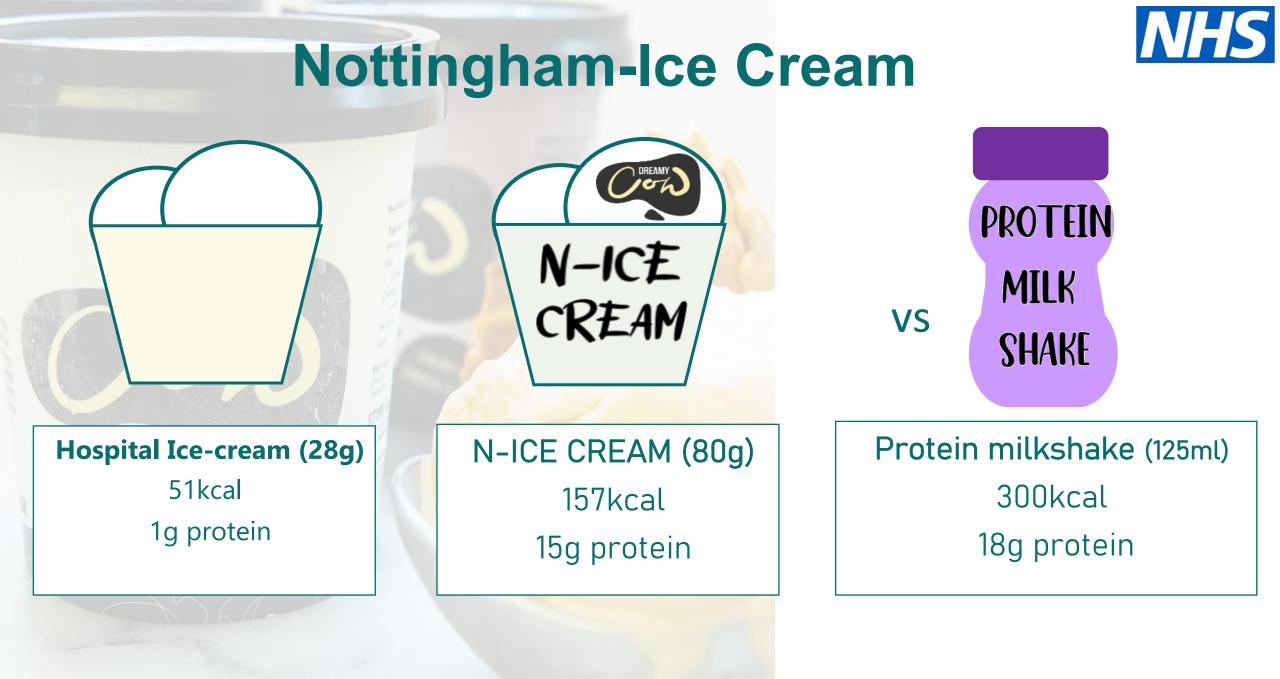


One ward wastes 4522kg a year!

Oral Nutritional Supplement (ONS) compliance



What's the solution??





About the N-ICE CREAM study



Older adults with broken hip or spine bones



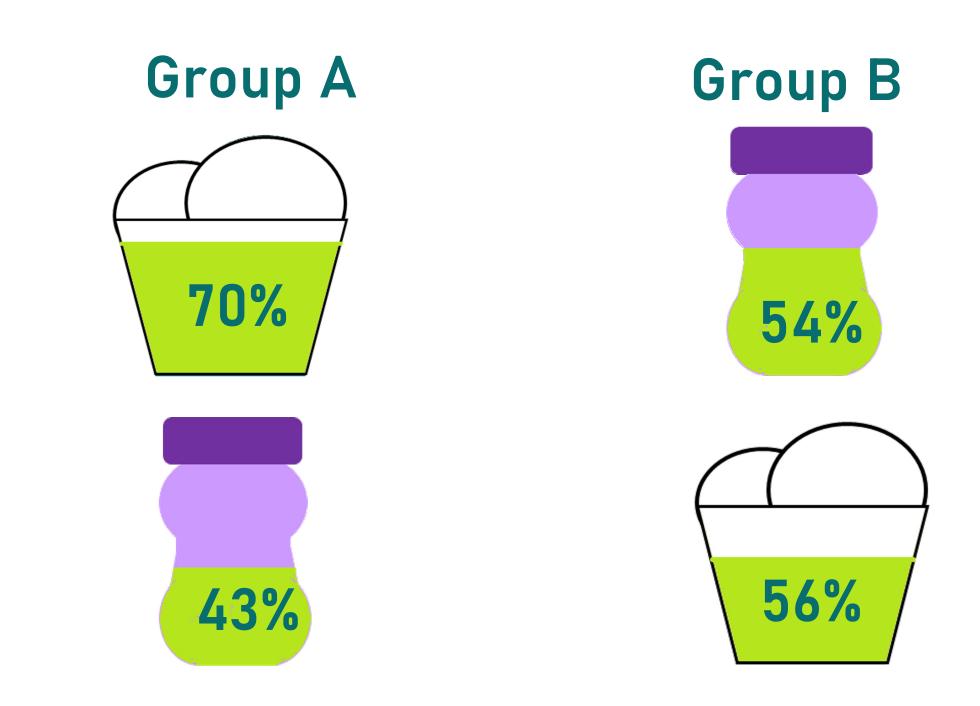
Four day study



Two days of N-ICE CREAM and two days of build up milkshake in different orders

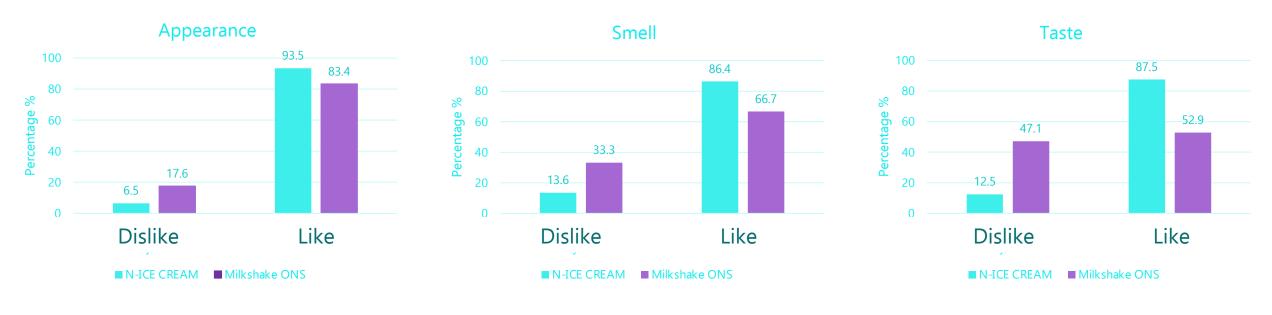


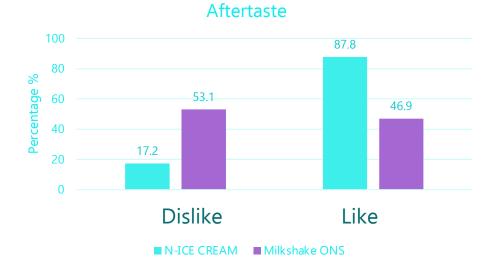
Group A		Group B	NHS
N-ICE CREAM CREAM	Day one	PROTEIN MILK SHAKE PROTEIN MILK SHAKE	
N-ICE CREAM CREAM	Day two	PROTEIN MILK SHAKE SHAKE	
PROTEIN MILK SHAKE SHAKE	Day three	N-ICE CREAM N-ICE CREAM	
PROTEIN MILK SHAKE PROTEIN MILK SHAKE	Day four	N-ICE CREAM REAM	

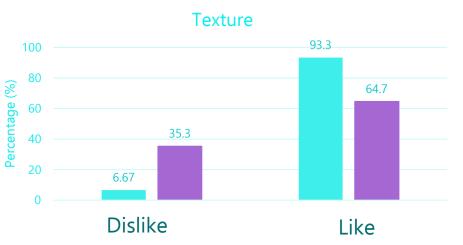




Hedonic ratings



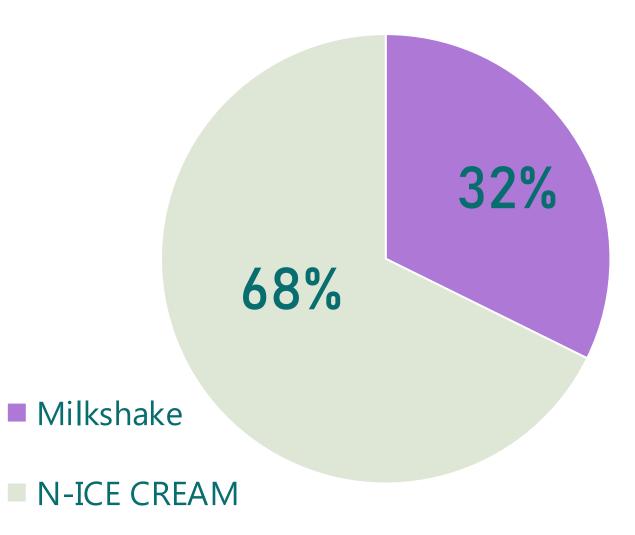




■ N-ICE CREAM ■ Milkshake ONS



Preference



Cool solution to nutrition for older people

Posted Tuesday, 19 July 2022 by Rachel Webster

This month, patients on the trauma and orthopaedic ward and the regional spine unit will be asked to try out a new,

NEWS

Home | War in Ukraine | Cost of Living | Coronavirus | Climate | UK | World | Business | Politics | Tech | Scie

'Enhanced' ice cream aimed at preventing malnutrition



CENTRAL | NOTTINGHA

CENTRAL HEALTH

Ice cream diet could keep

elderly patients cool and

healthier during the heatwave

(Tuesday 19 July 2022, 5:30pm



The ice cream is intended to encourage patients to take nutritional supplements

New 'healthy' ice cream offered to NHS patients





cream will help patients keep up

The NHS has been working with a farm on the trial



Conclusion

- N-ICE CREAM has the potential to improve the nutrition of patients in hospital with broken bones
- More research its needed!



Any Questions?

Contact: Opinder.Sahota@nuh.nhs.uk





Innovating food for seniors

What is innovation?



Innovation can refer to something new, such as an invention, or the practice of **developing** and **introducing new things**. An *innovation* is often **a new product**, but it can also be a **new way of doing something** or even **a new way of thinking**.

Innovation is most commonly associated with business and technology, but it happens in any field where people introduce change, including the arts, medicine, politics, cooking, language—even philosophy and religion.

Example: The internet changed society and is often considered the ultimate example of innovation, but it was built on the backs of many smaller, previous innovations.





PLANT-BASED INTERVENTIONS!





This short self-assessment tool will provide you with an overview of how prepared your company is to innovate nutrient-enriched food products and services for seniors.

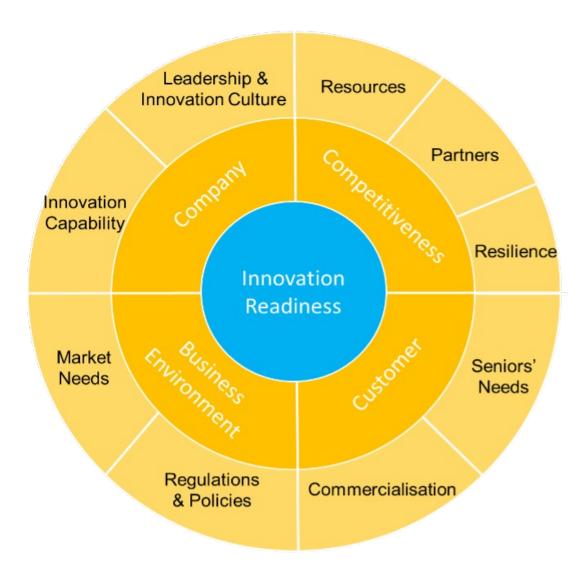
This tool is based on a validated Innovation Readiness Framework developed by the project partners. It will assess your **innovation readiness** in four areas and nine dimensions:

•Company – your company's innovation capability, leadership, and culture

•Competitiveness – your company's resilience and access to resources and partners that will accelerate your food innovation plans

•Customer – your company's understanding of seniors' specific needs and ability to commercialise food products/services

•Environment – your company's understanding of the policies, regulations, and market needs that help you better respond to the growing demands of marketing nutrient-enriched food products and services for seniors.



The tool will take approx. 10 minutes to complete. Upon completion of this self-assessment, you will receive the following benefits:

A Personalised Report

You will receive a personalised report indicating your strengths and areas of improvement to be fully equipped for innovating food for seniors.

Personalised Training Advice

You will receive advice on which modules of our E-learning course can best help you strengthen your innovation knowledge, skills, and abilities.

Tracking your Learning Progress

You may take this self-assessment regularly to track your learning progress when taking part in the E-learning course.

How to take the self-assessment

1.Read each question, then rate your degree of agreement with each statement.

2.Once completed, you will receive a personalised report within 30 seconds. The report will guide you to a unique learning path **by suggesting which modules of our Elearning course you should prioritise.**

The overview of IO4 is available here:

https://www.innovatingfoodforseniors.eu/online-course-en/

You will also have access to the **first 2 online modules** (<u>https://www.innovatingfoodforseniors.eu/online-module-1/</u>) and (https://www.innovatingfoodforseniors.eu/online-module-2/).

Innovating food for seniors

THANK YOU FOR LISTENING

Innovating food for seniors