

nutritionDay Report

Unit Performance & Actions

November 2017

Hospital: nutritionDay Draft Report Hospital

Unit: Draft Unit

Specialty: Draft Specialty

Centre Code: 9999 Unit Code: 999







Understanding the data

Unit data: is based on your online data input

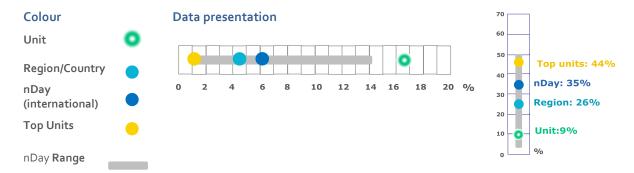
Region/country reference: is provided if participation is higher than xx units and xx patients in the country or xx units and xx patients in the region and presents data of [2016].

nDay reference: represents international data of your specialty of [2016]

Top Units reference: compares to the best ranked units of [2016]

Inclusion criteria:

- High participation units: Median size of the unit or bigger, minimum xx % outcome recorded
- Best ranked units: Mean of top 50%/25%/10% units of the question under consideration



Data on ward/hospital level		Reference	
	Unit	Region	nDay
Unit: green checkbox: done or available in your unit.	✓	75-100%	75-100%
White: not done or available in your unit		50-74%	50-74%
Reference: shades of blue indicate extent of availability in the reference		20-49%	20-49%
		0-19%	0-19%

Definitions

Malnutrition¹: (GLIM criteria have been adapted to fit to the risk categories of the nDay questionnaires)

		Core asses	ssment criteria		Supporting	Etiologic Criteria
	Weight	BMI	Food intake	Food intake	Acute disease	Chronic disease
	loss	.c	week before	on nDay		
Risk of	5-10%	<20 if <70	< 75% within	<50%		
malnutrition	within 3	years or <22	last week			
(requires one criteria)	months	if >70 years				
Malnutrition	5-10%	<20 if <70	< 75% within	<50%		Comorbidities: chronic
(requires 1 core	within 3	years or <22	last week		e.g. emergency	lung disease, chronic
and 1 supporting	months	if >70 years			admission,	liver disease, chronic
criteria)					Comorbidities:	kidney disease,
					infection,	diabetes
Severe						Comorbidities: chronic
Malnutrition					e.g. emergency	lung disease, chronic
(requires 1 core	>10%	<18.5 if <70			admission,	liver disease, chronic
and 1 supporting	within 3	years or <22	< 75% within 1		Comorbidities:	kidney disease,
criteria)	months	if >70 years	week	<50%	infection,	diabetes

¹ Exponent: describes how malnutrition /risk of malnutrition is defined in this report

Regions: acc. to MDG: World & Regional Groupings/ UNCTAD / Worldbank or WHO

Missing data: see numerical report for exact number of missing data. "Caution – insufficient data" indicates that >10% of patient data is missing or <5 patients have been included.

Abbreviations

BMI=Body Mass Index EN=Enteral Nutrition ESPEN= European Society for Clinical Nutrition and Metabolism (h/u)= hospital or unit m / maln = malnourished nDay=nutritionDay ONS=Oral Nutritional Supplements PN=Parenteral Nutrition QI=Quality indicator r=risk

Introduction and Interpretation

General Facts about Malnutrition

Malnutrition, as cause and consequence of disease affects 20-50% of hospitalized patients.

Malnutrition increases hospital length of stay by 2-6 days and hospitalization costs by 19-29%.

It is associated with increased morbidity and mortality and has serious implications for recovery.

An association exists between malnutrition and impaired quality of life of hospitalized patients. Malnutrition increases the risk of hospital acquired infections, complications, falls, pressure ulcers and leads to increased readmission.

Malnutrition (risk) in this unit:

62%

This report compares nutrition care of your ward and your patients to national/regional and international results of the same specialty and top units. This feedback should not be mistaken as definitive evidence of effectiveness and performance but may help to better understand and discuss nutrition care in your unit and encourage to take actions based on your feedback.

Participation 2016	Unit	Country	Region	nDay
Reference units ²		х	X	X
Patients				
Present on nDay	160	N	N	N
Who gave consent ³	82 (51%)	228 (82%)	1835 (70%)	8743 (63%)
Completing Sheet 3a/3b 4	81 (100%)	225 (81%)	1708 (65%)	8368 (60%)
Malnourished or at risk patients ⁵	50 (62%)	n (%)	n (%)	n (%)
30-day outcome assessment ⁶	66 (80%)	205 (88%)	1796 (97%)	8655 (98%)
Demographic information				
Age				
Female				
Weight				
Height				
BMI				

²⁻⁶ Exponents: are provided in the report next to each graph and refer to the total number of patients/units (n) that have been included for the unit and the reference groups (country/region/nDay/top units). Total numbers are provided in the above table.

Try to include all patients in the nDay survey and collect 30-day outcome assessment to receive a full picture of your unit and a certificate. In case of low participation please interpret the results with caution.

Data quality: xx% of your patients on nDay are included; xx patients have more than xx% missing data; xx patients have implausible data; to improve data quality log in to your account and download the plausibility report.

We recommend discussing the results within your team and with the hospital management. The report can serve as a basis for further steps.

Attachment I: Full numerical report (download separately from your personal account)

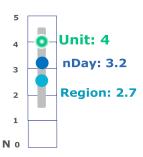
Scr

Prevalence of Malnutrition

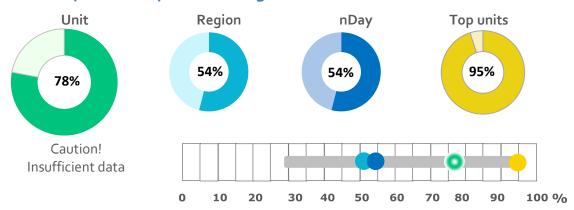
Unit Nutrition Indicators

1. Malnutrition screening structures on ward level²

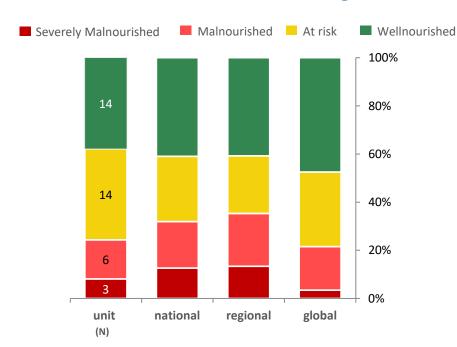
	Unit	Region	nDay
Screening using a validated screening tool		55%	51%
Routine screening at admission	\checkmark	3%	61%
Routine weighing at admission	\checkmark	65%	60%
Guidelines or standards are routinely used for nutrition care	✓	78%	75%
Nutrition care strategy exists (hospital /unit)	✓	79%	83%



2. Proportion of patients weighed at admission⁴



3. Prevalence of malnutrition according to definition¹

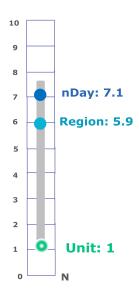


23 (62%) patients are malnourished or at risk of malnutrition according to definition. 6 thereof are considered well-nourished by staff.

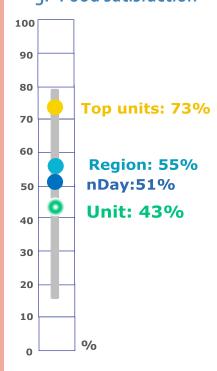
Well nourished patients acc. to staff	Unit	Country	Region	nDay
but malnourished by definition 1	N (%)	N (%)	N (%)	N (%)
but at risk by definition ¹	N (%)	N (%)	N (%)	N (%)

4. Food, meals and mealtime structures on ward level²

Un	it	Region	nDay
Promote positive eating environment		19%	15%
Protected mealtime policy		14%	20%
Consider food presentation		30%	36%
Consider patient allergies / intolerances		37%	40%
Consider cultural/religious preferences		23%	35%
Change food texture/consistency as needed		78%	78%
Consider patient problems with eating and drinking		58%	75%
Offer additional meals or in between snacks		65%	63%
Offer meal choices		65%	63%
Offer different portion sizes		59%	53%

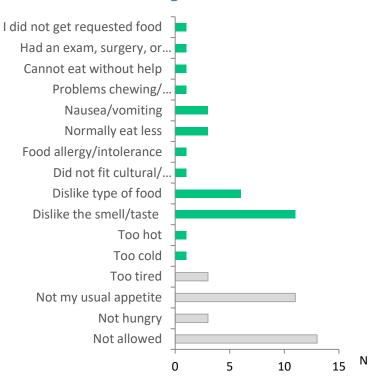


5. Food satisfaction⁴



Food, Meals and Mealtimes

6. Reasons for eating less⁴

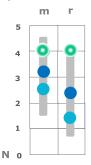


Food and foodservice quality is known to impact patient satisfaction with hospital stay. Hospital food service should be beneficial for recovery, customized to meet patients needs and give an example of healthy nutrition.

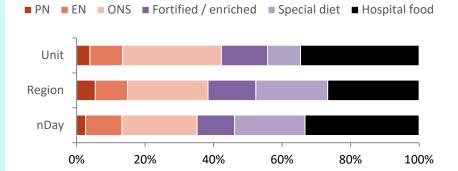
Considering the patients' eating preferences and wishes (green bars) may support eating the full meal.

7. Routine nutrition treatment structures for malnourished/at risk patients ²

	Unit		Region		nDay	
	m	r	m	r	m	r
Develop an individual nutrition care plan			55%	55%	51%	51%
Consult a nutrition expert	✓	\checkmark	3%	3%	61%	61%
Consult a medical professional	✓	\checkmark	65%	65%	60%	60%
Initiate treatment / nutrition intervention	✓	\checkmark	78%	78%	74%	74%
Calculate energy/protein requirements	✓	\checkmark	80%	80%	88%	88%

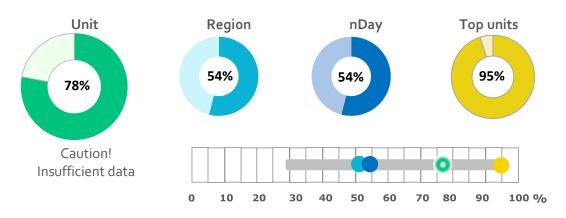


8. Nutrition treatment of malnourished / at risk patients⁵

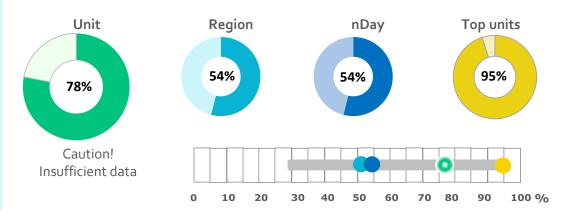


68% of malnourished /at risk patients receive nutritional support while **32%** (black bars) receive regular hospital food in your ward.

9. Malnourished / at risk patients seen by a nutrition expert⁵



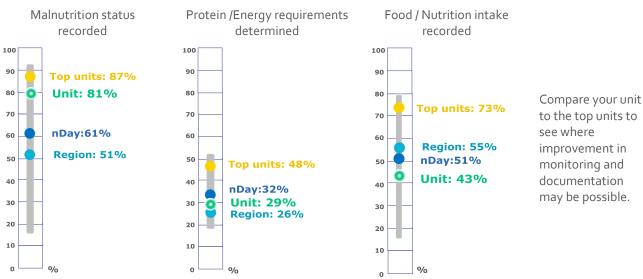
10. Malnourished / at risk patients with a nutrition treatment plan⁵



11. Monitoring and documentation structures on ward level²

	Unit	Region	nDay	9
Weighing during hospital stay		55%	51%	8 -0-Unit: 8
Routine monitoring during hospital stay	\checkmark	3%	61%	₇ nDay: 7.1
Documentation at admission: weight change	✓	78%	76%	6 Region: 5.9
Eating habits/difficulties	✓	55%	51%	5
Nutrition before admission	\checkmark	3%	61%	4
Patient record has a section for: documentation of nutrition treatment	✓	85%	79%	3 —
documentation of nutrition status	\checkmark	55%	51%	2 —
Discharge letter has a section for: nutrition treatment during hospital stay	✓	3%	61%	1 N
future nutrition recommendations	✓	93%	75%	

12. Monitoring & documentation of malnourished/at risk patients⁵



13. Multi-professional communication, coordination & training on ward level²

	Unit	Region	Global	7
Discuss nutrition care activities of malnourished/at risk patients during ward rounds		55%	51%	6 — — 5 — Unit: 5
Provide Brochures about malnutrition to malnourished/at risk patients	✓	3%	61%	nDay: 4 Region: 3.9
Nutrition training is available (h/u)	✓	65%	60%	3
Ask for patient feedback about food and food services (h/u)	✓	78%	74%	2 —
Report nutrition related information to hospital managers	✓	67%	50%	N O
Report QIs to national/regional level (h/u)	✓			
Use QIs for internal benchmarking (h/u)				

14. Health care professionals per 10 patients on nDay²

	Unit		Region/Co	ountry	nDay	
Medical Doctor	††	2.5	T T	2.3	Ϋ́π	1.2
Medical Students	††	2.4		0	ŤŤ	1.7
Nurses	Ť	0.4	n	2	ŤŤŤŤ	3.9
Nursing aides	ŤŤŤŤ	3.5	ŤŤŤŤ	† 5.1	ŤŤŤŤ	5.1
Dieticians	ŤŤŤ	2.5		0	Ϋ́π	1.3
Nutritionists						

Reading example:

[2.5] Medical doctors care for 10 patients in your unit...

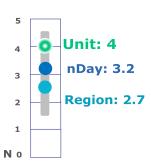
In case of 0:

[0] nutritionists are available for your unit...

= 1 staff member

15. Nutrition staff available on ward level²

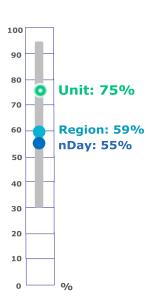
	Unit	Region	nDay
Nutrition steering team in the hospital		55%	51%
Nutrition support team in the unit	\checkmark	3%	61%
Person responsible for nutrition care in the unit	\checkmark	65%	60%
Dietician, Nutritionist, Dietetic assistant available	✓	78%	74%
Staff providing feeding assistance	✓	67%	50%



16. Financing²

Financing

In your hospital 8 different financing codes are available for the special reimbursement of nutrition-related care. 75% of these codes are currently used.

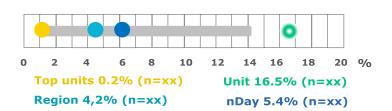


Outcomes

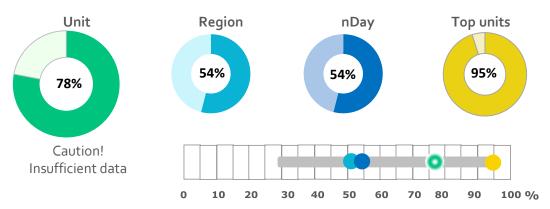
17. Self-rated health⁴

%

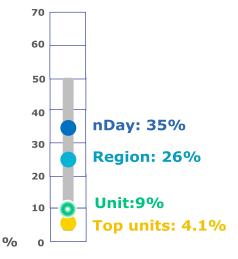
18. Complications with feeding tubes



19. Proportion of patients with adequate energy intake³



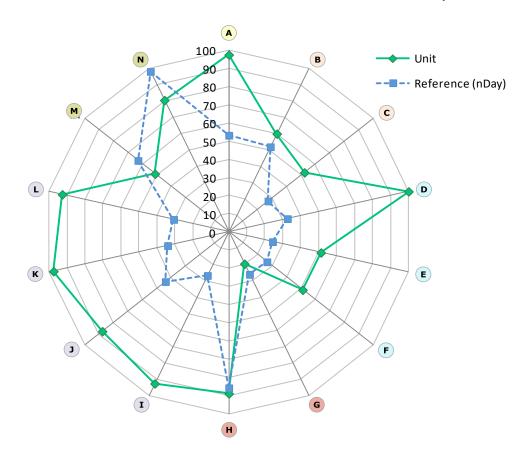
20. Unplanned readmission⁶



9% of all patients were readmitted unplanned. This accounts for xx% of all readmissions.

Summary - Benchmark and Compare your Nutrition of Care

Judge the performance of each process indicator (A-K). Your unit performance is compared to the performance of the international average (nDay Reference). The green continuous line shows the unit results while the blue dashed line shows the international results (nDay).



Quality of care indicators

Screening

A Patients weighed at admission

Prevalence

- B Malnourished/ at risk according to definition
- C Patients identified as malnourished/at risk of malnutrition

Treatment

- Nutritional expert consulted in case of malnutrition/ at risk of malnutrition
- (E) Malnourished/at risk patients receiving artificial treatment
- F Identified and treated malnourished/at risk patients 5

Food & Meals

- **G** Food satisfaction
- H Patients whose food **preferences** and **wishes** were met

Monitoring & Documentation

- Malnutrition status recorded in the patient record
- Patients whose food intake was recorded
- K Malnourished/ at risk patients with nutrition treatment plan developed
- L Malnourished/ at risk patients with energy/protein requirements determined 5

Data uncertainty

Patient inclusion M

- Proportion of admitted patients **included** in the nDay survey
- N Proportion of included patients with 30-day outcome assessment

Implementation of a Quality Improvement Project

Before you start a quality improvement cycle...

 \checkmark

- ☐ Are unit staff aware of the importance of malnutrition and nutrition treatment?
- ☐ Are there clear signs form management about the importance of nutritional care?
- ☐ Do you have the needed financial and human resources for a quality improvement initiative?
- ☐ Do all important stakeholders and decision makers support the project?
- ☐ Are all teams/committees/professionals on board (nutrition team, nutrition steering committee, decision makers, quality improvement team, representatives of all professions,...)?
- ☐ Is a multidisciplinary project team in place and a project leader defined?

Define what, when, how and who...

✓

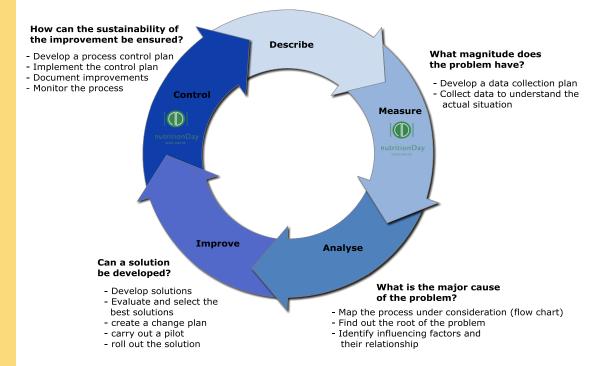
- ☐ Results of the report help to define blind spots or areas with potential for improvement
- ☐ Consider what is important for the hospital and if implementation is feasible
- ☐ Choose one or two areas that shall be improved
- □ Define specific goals, roles and responsibilities, resources allocation, milestones and timeline (what, who, how, when)
- ☐ Do not forget to keep all relevant stakeholders informed about developments

The DMAIC is a data-driven quality improvement strategy for improving processes and carrying out change. Repeating the 5 steps (describe – measure – analyse – improve – control) in small circles shall direct into a continuous change of an organisation in the desired field of interest and shall institutionalize the improvements by monitoring and modification of structures.

What is the problem?

DMAIC cycle

- Identify the area of interest
- Define and understand the problem.
- Define the required "inputs" (who, what, when, how)
- Develop an implementation plan
- Use nDay indicators and consider defining additional measures to allow following up on the progress.



Your personal development plan

Priority	Area to improve	Current state	Target performance	Actions to take	How and when I will measure success
I	e.g. Proportion of malnourished / at risk patients seen by a dietician	Screening is done systematically; dietician is not requested systematically for malnourished patients. xx% of malnourished/at risk patients have been seen by a dietician	Increase proportion of malnourished patients seen by a dietician from xx% to xx%.	Nutrition team to define standard process (how, when and who to call a dietician). Communicate and train new procedure. Include specific section in patient record.	1 month after implementation: check patient records of all admitted patients of 1 week. 1 year: repeat nDay and see if target performance has been reached

DRAFT Report – this report contains dummy data