

Country Report

nutritionDay November 2015 in OMAN

Dear participant, Mai 2016

thank you for your participation in nutritionDay worldwide in November 2015 and for your effort. We can finally present you your country report of the following sample size:

Number of units on nutritionDay:	27
Number of patients on nutritionDay:	418
Number of patients completing Sheet 3a:	336
Number of patients completing Sheet 3b:	332

The report consists of 3 parts:

Part I reflects the organisation and the structure of the unit.

Part II describes the patients according to questionnaire "sheet 2".

Part III is the summary of information on nutrition given by the patients according to sheet 3a and 3b.

You will find some explanations how to read and interpret the data on the next page.

Next year's nutritionDay will take place in November 2016. Again, we would very much appreciate your participation. You will be provided with further information on a regular basis.

Best regards from the nutritionDay-Team!

Prof. Dr. Michael Hiesmayr

Sigrid Kosak, MA



How to read the results

Your report is configured as table with 3 columns. The first column contains the name of the result, possibly with a short description. In the second column you will find your unit's results and in the third column you can see the reference values from units comparable to your patients.

You will find "(n)" in brackets indicating that results are referring to a certain number of patients. Generally the patients' results are based on the number of patients participating at your unit.

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For example: number of patients on nutritionDay 2015 = 20
Fluid status (n):
dehydrated 4
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Explanation: 4 of 20 patients participating are reported to be dehydrated on nutritionDay 2015.

If results are referring to an "n" different to the number of patients participating, a short explanation will be given.

For example: number of patients on nutritionDay 2015 = 20

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Weight loss within 3 months (n)
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Yes 10

Category of weight decrease (n):

0-4 kg 4

5-8 kg 2

> 8 kg 1

not sure 2

missing 1
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Explanation: 10 of 20 patients reported a weight loss within the last 3 months. The category of weight decrease is only referring to these 10 patients having lost weight.

Be careful! - There are some multiple choice questions in the questionnaires. In this case the total number of answers exceeds the number of patients. These results are marked with an asterisk.

For example: Affected organs (n)*

Mean and standard deviation are displayed as follows:

For example: Weight (kg) 75 ± 15

Median and range are displayed that way:

For example: LOS (days) 8 [5-15]



I. DESCRIPTION OF THE UNIT ("Sheet 1"):

	882 units, 18242 patients	
	YOUR RESULTS	REFERENCE ND-15
Number of beds (n):		
Actual	24 ± 9	26 ± 14
Maximum	32 ± 11	31 ± 15
Waximam	02 ± 11	31 ± 13
Number of patients on the nutritionDay (n):		
Total	418	18242
Did not give consent	55 (13.2%)	1878 (10.3%)
Needed help completing form	188 (45.0%)	9572 (52.5%)
Terminally ill	63 (15.1%)	2221 (12.2%)
Specialities (n):		
Internal medicine / general	10 (37.0%)	210 (23.8%)
Internal medicine / gastroenterology and	-	71 (8.05%)
hepatology		, ,
Internal medicine / oncology (incl.	3 (11.1%)	72 (8.16%)
radiotherapy)		
Internal medicine / cardiology	-	52 (5.90%)
Internal medicine / infectious diseases	-	8 (0.91%)
Internal medicine / geriatrics	-	65 (7.37%)
Internal medicine / nephrology	-	18 (2.04%)
Pediatrics	-	10 (1.13%)
Neurology	-	33 (3.74%)
Psychiatry	-	13 (1.47%)
Ear Nose Throat (ENT)	1 (3.70%)	20 (2.27%)
General surgery	6 (22.2%)	120 (13.6%)
Cardiothoracic surgery	-	10 (1.13%)
Orthopedic surgery	1 (3.70%)	52 (5.90%)
Trauma	-	14 (1.59%)
Neurosurgery	-	3 (0.34%)
Gynecology	4 (14.8%)	15 (1.70%)
Long-term-care	- (7.440/)	11 (1.25%)
Others	2 (7.41%)	85 (9.64%)
Staff /Staff per patient (n):		
Physicians	7.88 ± 5.79	5.42 ± 5.91
Physicians per patient	0.27 ± 0.22	0.18 ± 0.18
Consultants	4.15 ± 4.04	2.49 ± 4.49
Consultants per patient	0.14 ± 0.16	0.08 ± 0.16
Registrars	4.06 ± 5.38	1.47 ± 2.99
Registrars per patient	0.15 ± 0.21	0.05 ± 0.10
Nurses	12.30 ± 8.80	7.55 ± 7.10
Nurses per patient	0.42 ± 0.35	0.24 ± 0.21
Nursing aides	1.56 ± 2.20	2.84 ± 3.63
J		= 2.66



Nursing aides per patient	0.05 ± 0.08	0.09 ± 0.10
Dieticians and dietetic assistants	1.31 ± 1.49	1.24 ± 1.44
Dieticians and dietetic assistants per pat.	0.05 ± 0.06	0.04 ± 0.05
Nutrition Care:		
Nutrition Team	26 units (96%) Yes	724 units (82%) Yes
Written procedures		
- individual	18 units (67%) Yes	605 units (69%) Yes
- local	10 units (37%) Yes	418 units (47%) Yes
 national 	6 units (22%) Yes	429 units (49%) Yes
- other	2 units (07%) Yes	124 units (14%) Yes
Patients' weight assessed:		
On admission	19 units (70%) Yes	679 units (77%) Yes
When requested	14 units (52%) Yes	486 units (55%) Yes
Once a week	2 units (07%) Yes	343 units (39%) Yes
Occasionally	- units (00%) Yes	105 units (12%) Yes
Never	1 units (04%) Yes	13 units (01%) Yes



II. YOUR PATIENTS ("Sheet 2"):

	882 units, 18242 patients	
	YOUR RESULTS	REFERENCE ND-15
Number of patients (n):		
Total	418	18242
Patients who completed sheet 3a	336 (80.4%)	15848 (86.9%)
Patients who completed sheet 3b	332 (79.4%)	15415 (84.5%)
Demographic data:		
Age (years)	40 [14-96]	68 [1-116]
Female gender	223 (53.3%)	9222 (50.6%)
Weight (kg)	68.0 ± 17.9	71.9 ± 20.0
Height (cm)	159.8 ± 12.7	165.7 ± 11.7
BMI (kg/m²)	26.3 ± 6.5	26.0 ± 6.4
ICU-stay:		
Any ICU-stay	31 (7.42%)	1880 (10.3%)
Surgery (n):		
Preoperative patients	59 (14.1%)	1385 (7.59%)
Postoperative patients	62 (14.8%)	4159 (22.8%)
Length of stay in Hospital (days):	8 [1-117]	11 [1-151]
Outcome after 30 days (n):		
Still in hospital	53 (12.7%)	1628 (8.92%)
Transferred to another hospital	7 (1.67%)	383 (2.10%)
Transferred to long-term care	24 (5.74%)	1046 (5.73%)
Rehabilitation	2 (0.48%)	730 (4.00%)
Discharge home	308 (73.7%)	12413 (68.0%)
Death	15 (3.59%)	666 (3.65%)
Others Alesia or	8 (1.91%)	797 (4.37%)
Missing	1 (0.24%)	579 (3.17%)
Readmitted (n):	69 (16.5%)	2068 (11.3%)

Results in percent referring to the total number of patients



II. YOUR PATIENTS ("Sheet 2"):

<u> </u>	882 units, 18242 patients	
	YOUR RESULTS	REFERENCE ND-15
Nutrition therapy (n)*: Enteral nutrition Parenteral nutrition Enteral + parenteral nutrition Special diet Protein supplement Hospital food Others Missing	22 (5.26%) 25 (5.98%) 4 (0.96%) 65 (15.6%) 26 (6.22%) 297 (71.1%) 33 (7.89%) 4 (0.96%)	1150 (6.30%) 618 (3.39%) 131 (0.72%) 4436 (24.3%) 1913 (10.5%) 10834 (59.4%) 835 (4.58%) 1115 (6.11%)
Lines & tubes (n)*: None Centralvenous Nasogastric tube Any other (PEG, PEJ,)	58 (13.9%) 32 (7.66%) 14 (3.35%) 314 (75.1%)	11305 (62.0%) 1299 (7.12%) 335 (1.84%) 5303 (29.1%)
Affected organs (n)*: Brain, nerves Eye, ear Nose, throat Heart, circulation Lung Liver Gastrointestinal tract Kidney, urinary tract, female genital tract Endocrine system Skeleton, bone, muscle Blood, bone marrow Skin Ischaemia Cancer Infection Pregnancy Others No affected organ	64 (15.3%) 28 (6.70%) 18 (4.31%) 43 (10.3%) 50 (12.0%) 23 (5.50%) 39 (9.33%) 40 (9.57%) 34 (8.13%) 47 (11.2%) 62 (14.8%) 7 (1.67%) 2 (0.48%) 39 (9.33%) 37 (8.85%) 55 (13.2%) 28 (6.70%) 12 (2.87%)	2365 (13.0%) 359 (1.97%) 400 (2.19%) 3905 (21.4%) 2587 (14.2%) 1061 (5.82%) 3713 (20.4%) 2618 (14.4%) 1561 (8.56%) 3235 (17.7%) 842 (4.62%) 711 (3.90%) 271 (1.49%) 2381 (13.1%) 1096 (6.01%) 134 (0.73%) 1167 (6.40%) 1075 (5.89%)
Comorbidities (n)*: Diabetes I/II Stroke COPD Myocardial infarction Cardiac insufficiency Others No comorbidity	77 (18.4%) 16 (3.83%) 5 (1.20%) 5 (1.20%) 23 (5.50%) 318 (76.1%) 36 (8.61%)	3788 (20.8%) 1084 (5.94%) 1290 (7.07%) 615 (3.37%) 2373 (13.0%) 7888 (43.2%) 5897 (32.3%)

Results in percent referring to the total number of patients



III. YOUR PATIENTS ("Sheet 3a"):

	882 units, 18242 patients	
	YOUR RESULTS	REFERENCE ND-15
Weight loss within the last 3 months (n):	220 (00 20/)	152/1 (0/ 20/)
Total of patients answering	330 (98.2%)	15261 (96.3%)
Yes No	134 (39.9%)	6612 (41.7%)
	88 (26.2%)	6290 (39.7%)
No, I've gained weight I don't know	57 (17.0%) 51 (15.2%)	1189 (7.50%) 1170 (7.38%)
I doll I know	51 (15.270)	1170 (7.36%)
Category of weight decrease (n):		
Patients reporting weight loss	134 (39.9%)	6612 (41.7%)
0-4 kg	54 (16.1%)	2966 (18.7%)
5-8 kg	21 (6.25%)	1210 (7.64%)
> 8 kg	23 (6.85%)	1665 (10.5%)
Not sure	33 (9.82%)	696 (4.39%)
Missing	3 (0.89%)	75 (0.47%)
"How well have you eaten during the last		
week?"(n):		
Normal	180 (53.6%)	7491 (47.3%)
A bit less than normal	86 (25.6%)	3584 (22.6%)
Less than half of normal	39 (11.6%)	2302 (14.5%)
Less than a quarter to nearly nothing	24 (7.14%)	1782 (11.2%)
Missing	5 (1.49%)	556 (3.51%)
"I ate less because"(n)*:		
Total of patients answering	181 (53.9%)	7679 (48.5%)
Loss of appetite	103 (30.7%)	4361 (27.5%)
Problems with swallowing, mastication	13 (3.87%)	708 (4.47%)
Nausea	33 (9.82%)	1215 (7.67%)
Other reasons	45 (13.4%)	2616 (16.5%)
Other reasons	45 (15.470)	2010 (10.5%)
"Can you walk without assistance?"(n):		
Yes	221 (65.8%)	9574 (60.4%)
No, only with assistance	58 (17.3%)	4110 (25.9%)
No, I stay in bed	48 (14.3%)	1589 (10.0%)
Missing	7 (2.08%)	504 (3.18%)
"In general would you say your health is" (n):		
Excellent	35 (10.4%)	529 (3.34%)
Very good	66 (19.6%)	1343 (8.47%)
Good	163 (48.5%)	4726 (29.8%)
Fair	41 (12.2%)	5561 (35.1%)
Poor	24 (7.14%)	2997 (18.9%)
Missing	7 (2.08%)	692 (4.37%)
Results in percent referring to the total number of	•	
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III. YOUR PATIENTS ("Sheet 3b"):

	882 units, 18242 patients	
	YOUR RESULTS	REFERENCE ND-15
Hospital food intake:		
"Is your appetite normal?" (n):		
Yes	190 (56.5%)	9474 (59.8%)
No	105 (31.3%)	4730 (29.8%)
- I was not hungry	16 (15.2%)	2568 (54.3%)
 Problems with swallowing / mastication 	12 (11.4%)	346 (7.32%)
- Nausea	32 (30.5%)	722 (15.3%)
- Others	31 (29.5%)	1174 (24.8%)
No answer	37 (11.0%)	1211 (7.64%)
Fluid and supplement intake (n):		
Patients with fluid intake	269 (81.0%)	11895 (77.2%)
Drinks per patient & day (I)	0.51	0.43
Patients with supplements	41 (12.3%)	1566 (10.2%)
Supplements per patient & day (I)	0.09	0.03
"What kind of drinks did you consume?" (n)*:		
Water	280 (84.3%)	9843 (63.9%)
Milk	123 (37.0%)	2050 (13.3%)
Fruit juice	132 (39.8%)	3313 (21.5%)
Tea, coffee	88 (26.5%)	6515 (42.3%)
Soft drinks	11 (3.31%)	1406 (9.12%)
Lunch intake (n):		
All	50 (15.1%)	6329 (41.1%)
1/2	110 (33.1%)	4364 (28.3%)
1/4	97 (29.2%)	2363 (15.3%)
	, ,	, ,
	58 (17.5%)	1984 (12.9%)
? No answer	17 (5.12%)	375 (2.43%)
"I did not eat everything because" (n)*:		
I was not hungry	35 (12.4%)	2743 (30.2%)
I had nausea / vomiting	26 (9.22%)	678 (7.46%)
I was not allowed to eat	22 (7.80%)	850 (9.36%)
I can not eat without help	3 (1.06%)	125 (1.38%)
I had an examination / surgery	7 (2.48%)	564 (6.21%)
I ordered a smaller portion	10 (3.55%)	201 (2.21%)
I was tired	43 (15.2%)	439 (4.83%)
I normally eat less	26 (9.22%)	853 (9.39%)
I did not like the smell	8 (2.84%)	258 (2.84%)
I did not like the taste	39 (13.8%)	1127 (12.4%)



"Do you eat any food apart from hospital food?" (n): Yes No No answer	159 (47.3%) 147 (43.8%) 26 (7.74%)	5109 (32.2%) 9242 (58.3%) 1064 (6.71%)
"What do you eat?" (n)*:		
Cakes, biscuits	33 (20.8%)	1581 (30.9%)
Fresh fruits	61 (38.4%)	2214 (43.3%)
Sandwiches	23 (14.5%)	456 (8.93%)
Dairy products	42 (26.4%)	690 (13.5%)
Preferred dish	30 (18.9%)	504 (9.86%)
Sweets	24 (15.1%)	849 (16.6%)
Fruit Juice	37 (23.3%)	691 (13.5%)
Others	24 (15.1%)	840 (16.4%)
"Did you need help to complete the questionnaire?" (according to patient) (n):	040 ((0.40))	10070 ((5.40))
Yes	212 (63.1%)	10372 (65.4%)

Results referring to the total number of completed questionnaires

