



nutritionDay
IN EUROPE

Preliminary unit report

nutritionDay in ICU 2009

Centre: sample

Unit: sample

Number of Patients: 28

Dear participant,

February 2010

Thank you for your participation in nutritionDay in ICU 2009 and for your effort. We can finally present you your preliminary unit report.

Your results are presented as compared to the mean results of all participating units of nutritionDay in ICU 2009.

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

Best regards from the nutritionDay-Team!

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Karin Schindler

Bruno Mora



How to read the results

Your report is configured as a table with 3 columns. The first 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.

For example: *Number of patients on nutritionDay in ICU 2009 = 20*

ICU dependency (n):

Abdominal 4

...

Explanation: 4 of 20 patients participating are reported to be admitted to ICU for abdominal reasons.

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

For example: Oral feeding not possible (n): 17

because: Patient is sedated 10

Not allowed to eat 6

Can not swallow 1

Recent aspiration 0

Explanation: For 17 of 20 patients oral feeding was not possible on nutritionDay. The categories why feeding was not possible are only referring to these 17 patients.

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: Nutrition care (n)*

Mean and standard deviation are displayed as follows:

For example: Weight (kg) 75 ± 15

Median and range are displayed as follows:

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

Results in percent referring to the total number of patients from units with >=75 % outcome data (48 units, 598 patients)

	YOUR RESULTS	REFERENCE ND-09
Nutrition care (n (%))*:		
Oral	10 (37.0%)	305 (32.5%)
Enteral	10 (37.0%)	412 (43.9%)
Parenteral	2 (7.41%)	287 (30.6%)
Energy <u>planned</u> per patient (kcal/day)#		
Enteral	1462 ± 564	1340 ± 697
Parenteral	1853 ± 740	1419 ± 600
Other	720	1005 ± 804
Total	1495 ± 622	1609 ± 745
Energy <u>given</u> per patient (kcal/day) #		
Enteral	902 ± 674	1193 ± 668
Parenteral	1780 ± 626	1368 ± 618
Other	240	869 ± 770
Total	1054 ± 757	1485 ± 721
Duration of enteral nutrition (days)	1.7 ± 3.9	16.2 ± 35.4
Duration of parenteral nutrition (days)	0.6 ± 2.3	6.8 ± 15.8
Start of enteral nutrition (day)	1 [0-10]	2 [0-306]
Start of parenteral nutrition (day)	2 [0-17]	2 [0-306]
Oral feeding not possible (n (%))		
Reasons (n (%))*:	15 (55.6%)	534 (56.9%)
▪ Patient is sedated	7 (46.7%)	231 (43.3%)
▪ Not allowed to eat	10 (66.7%)	169 (31.6%)
▪ Cannot swallow	7 (46.7%)	175 (32.8%)
▪ Recent aspiration	2 (13.3%)	15 (2.81%)
Patient feeling (n (%))*:		
Total of patients answering	13 (48.1%)	334 (35.6%)
Hunger	9 (33.3%)	135 (14.4%)
Thirst	9 (33.3%)	205 (21.8%)
Nausea	5 (18.5%)	47 (5.01%)
Abdominal pain	3 (11.1%)	48 (5.11%)
Side effects (n (%)):		
Constipation	5 (17.9%)	172 (18.3%)
Diarrhoea	5 (17.9%)	114 (12.1%)
Gastric reflux	1 (3.70%)	180 (19.2%)
Gastric reflux volume (ml)	25	257 ± 357
Blood glucose (mg/dl)		
Glucose max >180 mg/dl (n(%))	-	159 ± 62
Glucose max >125 mg/dl (n(%))	-	183 (19.4%)
Glucose max >125 mg/dl (n(%))	-	516 (54.8%)
Insulin therapy (n (%)):		
Intermittent	14 (50.0%)	102 (10.8%)
Continuous	6 (21.4%)	276 (29.3%)
Pen	2 (7.14%)	12 (1.27%)

For all nutrition products with unclear specifications we assumed that the caloric content is 1kcal/ml



Reasons for interrupting nutritional support (n (%))*:

Surgery	6 (22.2%)	78 (8.31%)
Transport	2 (7.41%)	10 (1.06%)
Intolerance	-	39 (4.15%)
Other	10 (37.0%)	137 (14.6%)

Demographic data:

Number of patients (n)	28	949
Patients with completed sheets 3 u. 4 (n)	28/27	942/939
Age (years)	62 [25-85]	64 [2-99]
Female gender (n(%))	17 (60.7%)	381 (40.1%)
Height (cm)	169 ± 12	168 ± 11
Weight (kg)	77 ± 20	75 ± 19
BMI (kg/m ²)	27 ± 7	27 ± 6

Mean severity & resource utilisation scores:

SOFA	-	5 ± 4
SAPS2	-	40 ± 16
SAPS2-Predicted mortality	-	30 ± 25
NEMS	25 ± 8	26 ± 10

ICU dependency (n(%))*:

Abdominal	8 (28.6%)	156 (16.4%)
Burns	-	9 (0.95%)
Cardiac	8 (28.6%)	268 (28.2%)
Neurological	4 (14.3%)	185 (19.5%)
Pulmonary	7 (25.0%)	279 (29.4%)
Septic	9 (32.1%)	146 (15.4%)
Trauma	1 (3.57%)	79 (8.32%)
Others	11 (39.3%)	118 (12.4%)

Type of admission (n(%)):

Surgical	13 (46.4%)	426 (44.9%)
Emergency	9 (32.1%)	384 (40.5%)

Ventilated (n(%)):

11 (39.3%)	535 (56.8%)
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Outcome:

Outcome reported (n(%))	28 (100%)	943 (99.4%)
Death (n(%))	4 (14.3%)	264 (27.8%)

Length of stay (days):

Unit	5 [2-40]	15 [1-292]
Hospital	15 [3-62]	27 [1-299]

Unit structure:	35	11 ± 6
Actual beds	36	13 ± 7
Maximum beds	18	7 ± 5
Nurses	700	296 ± 180
Sum NEMS	39	53 ± 31
NEMS/Nurse		

