nutritionDay

## nutritionDay 2009 in NORWAY

Dearparticipant,
J uly 2009

Thank you for your partcipation in nutritionDay 2009 and for your effort. We can finally present you your country report of the following sample size:

| Number of units on nutritionDay: | 24 |
| :--- | :--- |
| Number of patients on nutritionDay: | 449 |
| Number of patients completing Sheet 3a: | 292 |
| Number of patients completing Sheet 3b: | 279 |

The report consists of 3 parts:
Part I reflects the organisation and the structure of the units.
Part II describes the patients a c cording to questionna ire "sheet 2".
Part III is the summary of information on nutrition given by the patients according to sheet 3 a and 3 b .

You will find some explanationshow to read a nd interpret the data on the next page.
Next year's nutritionDay will take place in January 2010. 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. Mic hael Hiesmayr


Dr. Karin Schindler


Mag. Johanna Tripamer

## How to read the results?

Your report is configured as table with 3 columns. The first column contains the na me of the result, possibly with a short description. In the second column you will find your country results and in the third column you can see the reference values from the total cohort.

You will find "( $n$ )" in brackets indicating that results are refeming to a certa in number of patients. Generally the patients' results are based on the number of patients partic ipating at your country.
For example: number of patients on nutritionDa y $2009=20$
Fluid status ( n ):
dehydrated 4
Explanation: 4 of 20 patients participating are reported to be dehydrated on nutritionDay 2009.

If results are refeming to an " $n$ " different to the number of patients participating, a short explanation will be given.
For example: number of patients on nutritionDay $2009=20$
Weight loss within 3 months ( $n$ )
Yes 10
Category of weight decrease ( $n$ ):
$0-4 \mathrm{~kg} \quad 4$
$5-8 \mathrm{~kg} \quad 2$
$>8 \mathrm{~kg} \quad 1$
not sure 2
missing 1
Explanation: 10 of 20 patients reported a weight loss within the last 3 months. The category of weight decrease is only refering to these 10 patients having lost weight.

Be careful! - There are some multiple choice questions in the questionna ires. In this case the total number of a nswers 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) $75 \pm 15$

Median and [min - max] are displayed that way:
For example: LOS (days) 8[5-15]

## Number of beds:

| Actual | $21 \pm 9$ | $27 \pm 16$ |
| :--- | :--- | :--- |
| Maximum | $21 \pm 8$ | $30 \pm 17$ |

## Number of patients on the nutritionDay ( $n$ ):

Total
Did not give consent Needed help

449
112 (24.9\%)
140 (31.2\%)
11296
1580 (14.0\%)
4779 (42.3\%)

## Specialities ( $\mathbf{n}$ ):

Intemal medicine/general
Intemal medicine/gastroenterology and
2 (8.33\%)
65 (12.4\%)
hepatology
Intemal medicine/oncology (incl.
7 (29.2\%)
49 (9.32\%)
Radiotherapy)
Intemal medicine/cardiology
2 (8.33\%)
37 (7.03\%)

Intemal medic ine/infectious diseases
Intemal medicine/geriatrics
Intemal medicine/nephrology
1 (4.17\%)
14 (2.66\%)

Pediatrics
Neurology
1 (4.17\%)
10 (1.90\%)

Psychiatry
1 (4.17\%)
73 (13.9\%)

Ear Nose Throat (ENT)
General surgery
4 (16.7\%)
15 (2.85\%)
2 (0.38\%)
16 (3.04\%)
7 (1.33\%)
15 (2.85\%)
Cardiothoracic surgery
76 (14.4\%)
8 (1.52\%)
Orthopedic surgery
2 (8.33\%)
Trauma
1 (4.17\%)
19 (3.61\%)
12 (2.28\%)
Neurosurgery
7 (1.33\%)
Gynecology
9 (1.71\%)
Long-term-care
Others
3 (12.5\%)
92 (17.5\%)
Staff/ Staff per patient
Physicians
$6.94 \pm 3.68$
$4.48 \pm 5.05$
Physicians per patient
$0.28 \pm 0.15$
$0.16 \pm 0.14$
Consultants
Consultants per patient
Registrars
$3.14 \pm 1.61$
$1.87 \pm 3.40$

Registrars per patient
$0.16 \pm 0.11$
$0.07 \pm 0.10$
$2.95 \pm 1.36$
$2.43 \pm 3.58$

Nurses
$0.15 \pm 0.08$
$0.08 \pm 0.10$

Nurses per patient
$8.67 \pm 6.06$
$6.06 \pm 8.15$

Nursing a ides
$0.41 \pm 0.22$
$0.22 \pm 0.19$
Nursing aides per patient
$1.88 \pm 1.87$
$2.39 \pm 2.30$
$0.08 \pm 0.07$
$0.09 \pm 0.09$

Student nurses
Student nurses per patient
Dietic ia ns and dietetic assistants
Dieticians and dietetic assistants perpat.

## Nutrition Care:

Nutrition Team
Written procedures

- individual
- local
- national


## Patient' weight assessed:

On admission
When requested
Once a week
Occasionally
Never
$1.78 \pm 2.17 \quad 1.30 \pm 1.46$
$0.08 \pm 0.09$ $0.05 \pm 0.05$
$0.22 \pm 0.41$
$0.78 \pm 0.76$
$0.01 \pm 0.02$
$0.03 \pm 0.04$

1 units (04\%) Yes 372 units (71\%) Yes
13 units (54\%) Yes 330 units (63\%) Yes
11 units (46\%) Yes 219 units (42\%) Yes

- units (00\%) Yes 188 units (36\%) Yes

18 units (75\%) Yes 20 units ( $83 \%$ ) Yes
9 units (38\%) Yes 4 units (17\%) Yes

- units (00\%) Yes

366 units (70\%) Yes 304 units (58\%) Yes 199 units (38\%) Yes 67 units (13\%) Yes 8 units (02\%) Yes

## Number of patients (n):

Total
Patients who comple
Patients who comple
Demographic data:

| Age (years) | $66[17-100]$ | $69[4-109]$ |
| :--- | ---: | ---: |
| Female gender | $195(43.4 \%)$ | $5544(49.1 \%)$ |
|  |  |  |
| Weight $(\mathrm{kg})$ | $73.7 \pm 18.4$ | $71.4 \pm 17.6$ |
| Height $(\mathrm{cm})$ | $171.9 \pm 10.6$ | $166.9 \pm 10.2$ |
| BMI $\left(\mathrm{kg} / \mathrm{m}^{2}\right)$ | $24.9 \pm 5.5$ | $25.6 \pm 5.7$ |

## Ruid status ( n ):

Normal
Dehyd rated
Fluid overload
Missing
449
292 (65.0\%)
279 (62.1\%)
11296
8934 (79.1\%)
8589 (76.0\%)

69 [4-109]
5544 (49.1\%)

$$
71.4 \pm 17.6
$$

$166.9 \pm 10.2$
$25.6 \pm 5.7$
$\begin{array}{rr}191(42.5 \%) & 7326 \text { (64.9\%) } \\ 24(5.35 \%) & 902 \text { (7.99\%) }\end{array}$
24 (5.35\%) 1036 (9.17\%)
210 (46.8\%)
2032 (18.0\%)

## ICU-stay ( n ):

Any ICU-stay
22 (4.90\%)
1253 (11.1\%)

## Surgery (n):

Preoperative patients
35 (7.80\%)
1104 (9.77\%)
Postoperative patients
103 (22.9\%)
2659 (23.5\%)

## Length of stay (days):

Hospital
Unit
Outcome after $\mathbf{3 0}$ days ( $\mathbf{n}$ ):
Still in hospital
Transferred to another hospital
Transferred to long-term care
Rehabilitation
Discharge home
Death
Others
Missing
12 [2-151]
15 [2-393]
12 [2-151]
14 [1-280]

## Readmitted ( n ):

| $21(4.68 \%)$ | $720(6.37 \%)$ |
| ---: | ---: |
| $36(8.02 \%)$ | $319(2.82 \%)$ |
| $24(5.35 \%)$ | $331(2.93 \%)$ |
| $10(2.23 \%)$ | $294(2.60 \%)$ |
| $192(42.8 \%)$ | $6449(57.1 \%)$ |
| $17(3.79 \%)$ | $337(2.98 \%)$ |
| $11(2.45 \%)$ | $230(2.04 \%)$ |
| $138(30.7 \%)$ | $2616(23.2 \%)$ |

67 (14.9\%)
892 (7.90\%)
Results in percent refeming to the total number of patients

Nutrition therapy ( n )*:
Enteral nutrition
Parenteral nutrition
Enteral + parenteral nutrition
Special diet
Protein/energy supplement
Hospital food
Others
Missing

## Lines \& tubes (n)*:

None
One line
More than one
Centralvenous
Na soga stric tube
Any other (PEG, PEJ, ...)

Affected organs (n)*:
Brain, nerves
Eye, ear
Nose, throat
Heart, circulation
Lung
Liver
Gastrointestinal tract
Kidney, urina ry tract, femal genital tract
Endocrine system
Skeleton, bone, muscle
Blood, bone marrow
Skin
Ischaemia
Cancer
Infection
Pregnancy
Others
No affected organ

## Comorbidities ( n )*:

Diabetes I/II
Stroke
COPD
Myocardial infarction
Cardiac insufficiency
Others
No comorbidity

| $17(3.79 \%)$ | $970(8.59 \%)$ |
| ---: | ---: |
| $19(4.23 \%)$ | $523(4.63 \%)$ |
| $4(0.89 \%)$ | $166(1.47 \%)$ |
| $24(5.35 \%)$ | $1427(12.6 \%)$ |
| $32(7.13 \%)$ | $864(7.65 \%)$ |
| $219(48.8 \%)$ | $6753(59.8 \%)$ |
| $10(2.23 \%)$ | $507(4.49 \%)$ |
| $177(39.4 \%)$ | $1547(13.7 \%)$ |
|  |  |
| $389(86.6 \%)$ | $8425(74.6 \%)$ |
| $54(12.0 \%)$ | $2427(21.5 \%)$ |
| $6(1.34 \%)$ | $444(3.93 \%)$ |
| $17(3.79 \%)$ | $845(7.48 \%)$ |
| $6(1.34 \%)$ | $191(1.69 \%)$ |
| $42(9.35 \%)$ | $2029(18.0 \%)$ |

$\begin{array}{rr}36(8.02 \%) & 1325(11.7 \%) \\ 1 \text { (0.22\%) } & 250(2.21 \%)\end{array}$
6 (1.34\%) 385 (3.41\%)
15 (3.34\%) 1940 (17.2\%)
36 (8.02\%) 1280 (11.3\%)
28 (6.24\%) 654 (5.79\%)
98 (21.8\%) 2259 (20.0\%)
35 (7.80\%) $\quad 1200$ (10.6\%)
7 (1.56\%) 706 (6.25\%)
53 (11.8\%) 1601 (14.2\%)
8 (1.78\%) 491 ( $4.35 \%$ )
2 (0.45\%) 273 ( $2.42 \%$ )
185 (1.64\%)
$\begin{array}{rr}113 \text { (25.2\%) } & 2067 \text { (18.3\%) } \\ 15 \text { (3.34\%) } & 737 \text { (6.52\%) }\end{array}$
$\begin{array}{rr}113(25.2 \%) & 2067 \text { (18.3\%) } \\ 15(3.34 \%) & 737 \text { (6.52\%) }\end{array}$
37 (0.33\%)
613 (5.43\%)
163 (36.3\%) 1524 (13.5\%)
-

1861 (16.5\%)
$\begin{array}{ll}6(1.34 \%) & 514(4.55 \%) \\ 14(3.12 \%) & 647(5.73 \%)\end{array}$
$\begin{array}{ll}14(3.12 \%) & 647(5.73 \%) \\ 11(2.45 \%) & 456(4.04 \%)\end{array}$
$\begin{array}{lr}11(2.45 \%) & 456(4.04 \%) \\ 16(3.56 \%) & 1269(11.2 \%)\end{array}$
97 (21.6\%) 3681 (32.6\%)
312 (69.5\%) 5019 (44.4\%)
Results in percent refeming to the total number of patients

## Weight loss within the last 3 months ( n ):

Total of patients a nswering
Yes
No
No, l've gained weight
I don't know

| $281(96.2 \%)$ | $8518(95.3 \%)$ |
| ---: | ---: |
| $135(46.2 \%)$ | $3864(43.3 \%)$ |
| $105(36.0 \%)$ | $3141(35.2 \%)$ |
| $25(8.56 \%)$ | $801(8.97 \%)$ |
| $16(5.48 \%)$ | $712(7.97 \%)$ |

## Category of weight decrease ( $n$ ):

Patients reporting weight loss
135 (46.2\%)
3864 (43.3\%)
$0-4 \mathrm{~kg}$
$5-8 \mathrm{~kg}$
67 (22.9\%)
1796 (20.1\%)
$>8 \mathrm{~kg}$
23 (7.88\%)
774 (8.66\%)
Not sure
27 (9.25\%)
932 (10.4\%)
Missing
13 (4.45\%)
299 (3.35\%)
5 (1.71\%)
63 (0.71\%)

## "How well have you eaten during the last week?"(n):

Normal
A bit lessthan nomal
Less than half of nomal
Less than a quarter to nearly nothing
111 (38.0\%)
4208 (47.1\%)
79 (27.1\%)
2043 (22.9\%)
50 (17.1\%)
1223 (13.7\%)
Missing
40 (13.7\%)
1042 (11.7\%)
"I ate less bec ause"( $\mathbf{n}$ )*:
Total of patients a nswering
12 (4.11\%)
418 (4.68\%)

Loss of a ppetite
Problems with swa llowing/c hewing
Nausea
Other reasons
163 (55.8\%)
4263 (47.7\%)
109 (37.3\%)
2505 (28.0\%)
19 (6.51\%)
523 (5.85\%)
30 (10.3\%) 719 (8.05\%)
"Can you walk without assistance?"(n):
Yes
186 (63.7\%)
5518 (61.8\%)
No, only with a ssistance
67 (22.9\%)
1991 (22.3\%)
No, I stay in bed
Missing
25 (8.56\%)
980 (11.0\%)
14 (4.79\%)
445 (4.98\%)
"Did you need help to complete the questionnaire? "(ac cording to patient) (n): Yes

181 (62.0\%)
5347 (59.9\%)
Results in percent refering to the total number of patients a nswering

## III. YOUR PATIENTS ("Sheet 3b"):

Total cohort: 526 units, 11296 patients YOUR COUNIRY RESULTS REFERENCE ND-09

Fuid and supplement intake (n):

| Patients with fluid inta ke | $261(93.5 \%)$ | $7104(82.7 \%)$ |
| :--- | ---: | ---: |
| Drinks per patient \& day (I) | 1.07 | 0.85 |
| Patients with supplements | $55(19.7 \%)$ | $1644(19.1 \%)$ |
| Supplements per patient \& day (I) | 0.08 | 0.09 |

Results refering to the total number of completed questionnaires

## Hospital food intake:

| Your country results (refeming to the total number of completed questionnaires=279) |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| $\mathrm{n}(\%)$ | all | $1 / 2$ | $1 / 4$ | nothing | no answer |
| Breakfast | $149(53.4 \%)$ | $53(19.0 \%)$ | $28(10.0 \%)$ | $44(15.8 \%)$ | $5(1.79 \%)$ |
| Lunch | $113(40.5 \%)$ | $51(18.3 \%)$ | $31(11.1 \%)$ | $58(20.8 \%)$ | $26(9.32 \%)$ |
| Dinner | $99(35.5 \%)$ | $58(20.8 \%)$ | $34(12.2 \%)$ | $37(13.3 \%)$ | $51(18.3 \%)$ |

Reference results (refeming to the total number of completed questionna ires=8589)

| $\mathrm{n}(\%)$ | all | $1 / 2$ | $1 / 4$ | nothing | no answer |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Breakfast | $4164(48.5 \%)$ | $1649(19.2 \%)$ | $779(9.07 \%)$ | $1286(15.0 \%)$ | $711(8.28 \%)$ |
| Lunch | $3560(41.4 \%)$ | $2273(26.5 \%)$ | $1130(13.2 \%)$ | $1179(13.7 \%)$ | $447(5.20 \%)$ |
| Dinner | $3394(39.5 \%)$ | $1922(22.4 \%)$ | $986(11.5 \%)$ | $1063(12.4 \%)$ | $1224(14.3 \%)$ |


| Your country results (refeming to the total number of completed questionna ires=279) |  |  |  |
| :--- | ---: | ---: | ---: |
| $\mathrm{n}(\%)$ | Snack 1 | Snack 2 | Snack 3 |
| Cakes, sweets, bisc uits | $16(5.73 \%)$ | $38(13.6 \%)$ | $15(5.38 \%)$ |
| Fresh fruits | $35(12.5 \%)$ | $23(8.24 \%)$ | $23(8.24 \%)$ |
| Sandwiches | $7(2.51 \%)$ | $3(1.08 \%)$ | $50(17.9 \%)$ |
| Dainy products | $8(2.87 \%)$ | $6(2.15 \%)$ | $20(7.17 \%)$ |
| Others | $14(5.02 \%)$ | $10(3.58 \%)$ | $14(5.02 \%)$ |
| Nothing | $85(30.5 \%)$ | $70(25.1 \%)$ | $58(20.8 \%)$ |
| Missing | $127(45.5 \%)$ | $134(48.0 \%)$ | $133(47.7 \%)$ |


| Reference results (refering to the total number of completed questionna ires=8589) |  |  |  |
| :--- | ---: | ---: | ---: |
| $\mathrm{n}(\%)$ | Snack 1 | Snack 2 | Snack 3 |
| Cakes, sweets, bisc uits | $651(7.58 \%)$ | $1447(16.8 \%)$ | $742(8.64 \%)$ |
| Fresh fruits | $988(11.5 \%)$ | $941(11.0 \%)$ | $798(9.29 \%)$ |
| Sa ndwiches | $185(2.15 \%)$ | $327(3.81 \%)$ | $511(5.95 \%)$ |
| Dairy products | $584(6.80 \%)$ | $718(8.36 \%)$ | $723(8.42 \%)$ |
| Others | $304(3.54 \%)$ | $420(4.89 \%)$ | $335(3.90 \%)$ |
| Nothing | $2966(34.5 \%)$ | $2178(25.4 \%)$ | $2576(30.0 \%)$ |
| Missing | $3384(39.4 \%)$ | $3277(38.2 \%)$ | $3501(40.8 \%)$ |

