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FRIEDRICH-ALEXANDER UNIVERSITÄT FRI ANGEN-NÜRNBERG

FACULTY OF MEDICINE





nutritionDay worldwide Save the date!



7. November 2013

nutritionDay

Overview of ESPEN European Project

Project – What is nutritionDay?

History – Why nutritionday?

Participation

Recent Activities

Limitations & Strengths



nutritionDay worldwide

51 Countries

30 Languages

4.877 Hospital / nursing home units

151.617 Participants





Coordination

Central
Michael Hiesmayr,
Karin Schindler
Medical University Vienna

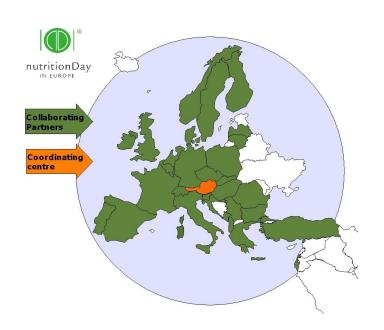
Nursing home
Dorothee Volkert
Cornel Sieber
University Erlangen-Nürnberg











2006 nD in Hopitals

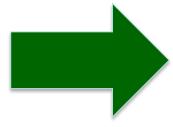
2007 nD in **ICU**

nD in **Nursing Homes**

2012 nD in Oncology



nutritionDay IN EUROPE





nutritionDay worldwide



1-day cross-sectional data collection

in yearly intervals

by questionnaire

in hospitals and nursing homes

actively involving staff

without need of specialist knowledge

with individual feedback to each unit



- → Increase awareness of malnutrition
- **→** Benchmarking with other institutions



www.nutritionDay.org

Registration
Code-Order
Download of questionnaires

Data input

Download of feedback report

→ Certificate for successful participation





Certificate

Unit (Institution)

has participated in year

in the annual worldwide hospital/nursing home nutrition benchmarking programme and fulfilled criteria to obtain this certificate.

This unit has contributed information to maintain and improve the quality of nutritional care in nutritionDay in hospitals worldwide











Date of nutritionDay

Prof. Dr. Michael Hiesmayr (Project Leader)

Prof. Pierre Singer

(ESPEN Chairman)

Dr. Karin Schindler (Project Coordinator)

4. shiedlo S. Vosak

Sigrid Kosak, MA (Project Manager)

nutritionDay is a joint project of the European Society for Clinical Nutrition and Metabolism, the Medical University of Vienna, the Austrian Society of Clinical Nutrition and national societies for clinical nutrition.

nutritionDay – contents



Questionnaires

Sheet I Institutional characteristics

Sheet II a Main characteristics of patients / residents

Sheet II b Mini Nutritional Assessment (SF)

Sheet III a Nutritional characteristics of participants:

Body weight – weight loss – intake last week

Sheet III b Particpant at nD: plate diagramm at lunch

Sheet IV Follow-up after 30 days / 6 months

Detailed instructions and explanations





Patient / Resident

age, health, mobility, need of care







Patient's / Resident's nutritional status

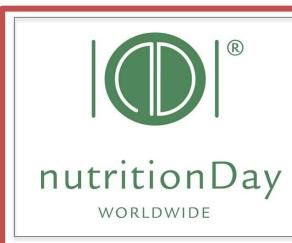
BMI, weight loss, malnutrition, intake last week, intake at nD

All 1/2 1/4 nothing don't know









What will be?

nutritionDay

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Situation before ND (2003)

- Experts had identified
 "hospital malnutrition"
 "disease related undernutrition"
 as a major problem in institutional health care
- 15-40% of hospitalised patients "malnourished"
- Neither systematic assessment nor treatment of MN
- Lack of nutritional awareness & education
- Lack of clearly defined responsibilities

https://wcm.coe.int/rsi/CM/index.jsp

COUNCIL OF EUROPE

COMMITTEE OF MINISTERS

Resolution ResAP(2003)3 on food and nutritional care in hospitals

(Adopted by the Committee of Ministers on 12 November 2003 at the 860th meeting of the Ministers' Deputies)

18 countries within the European Council signed up for "hospital nutrition" as future political priority

Austria Belgium Cyprus Denmark Finland France Germany Ireland Italy Luxembourg The Netherlands Norway Portugal Slovenia **Spain** Sweden Switzerland United Kingdom



Why nutritionDay?

- Increase awareness
- Create a community that speaks a similar language and may produce together new evidence
- Have up-to-date local, regional, national data that can be compared
- Increase understanding and knowledge
 - → Determinants of malnutrition and relation to outcome
 - → Variability between institutions
 - → Risk groups

nutritionDay

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nD – total participation worldwide

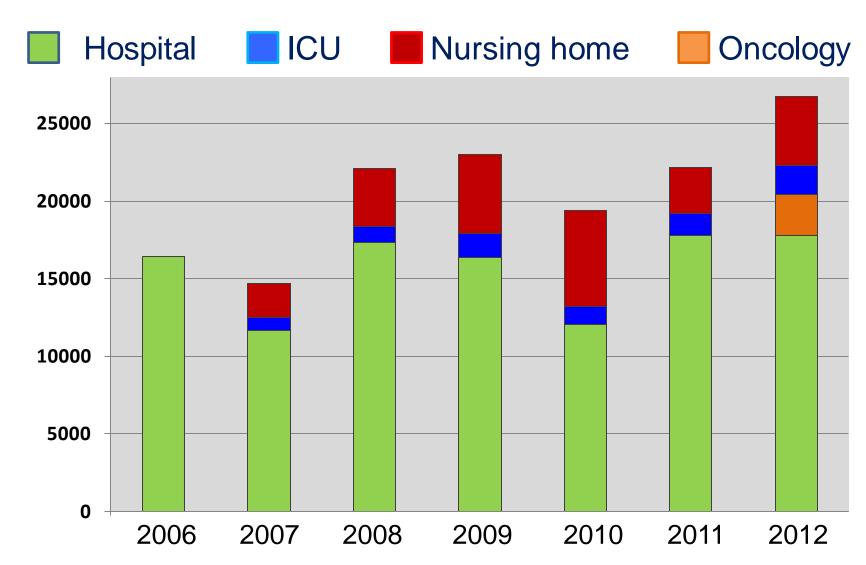


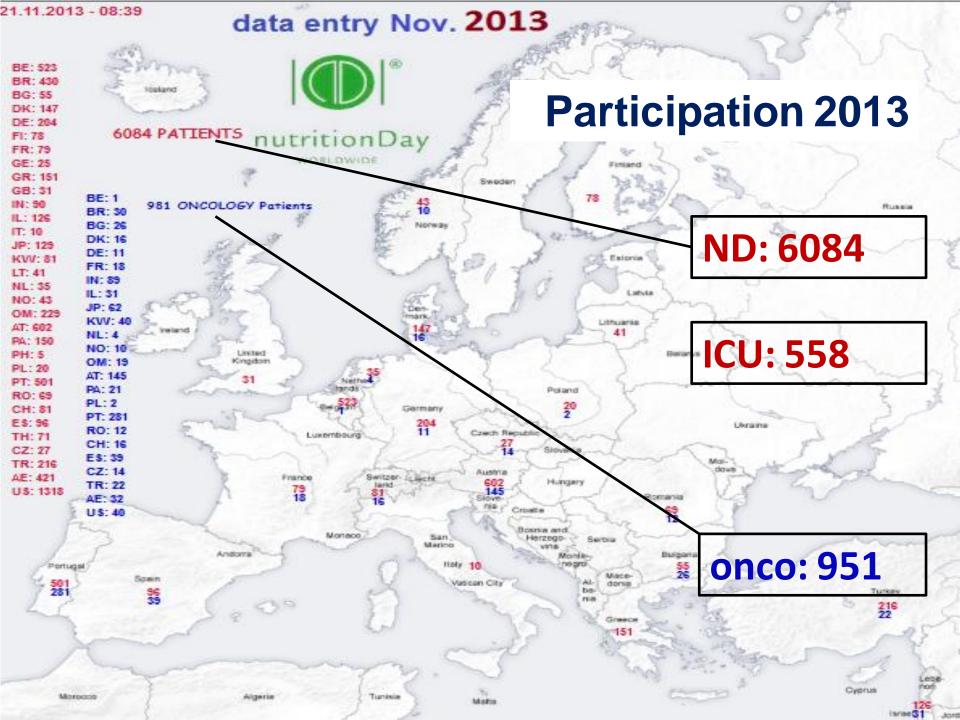
	Centers	Units	Participants			
Hospital	1.219	3.697	115.969			
ICU	203	510	8.333			
NH	366	670	27.315			
Total	1787	4877	151.617			
51 Countries						

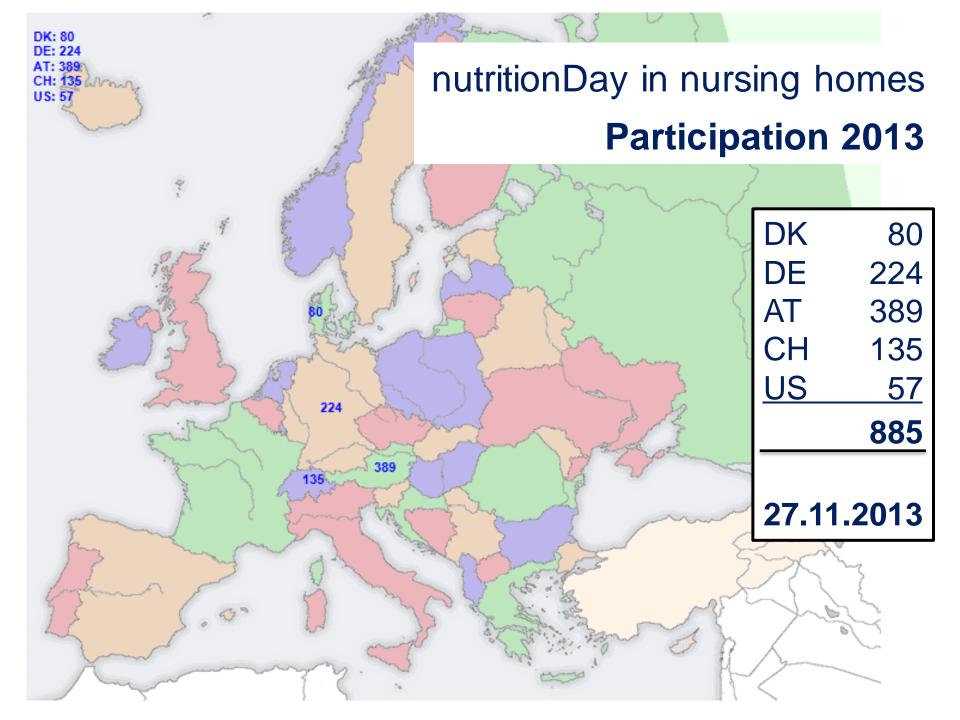
(2006 - 2012)

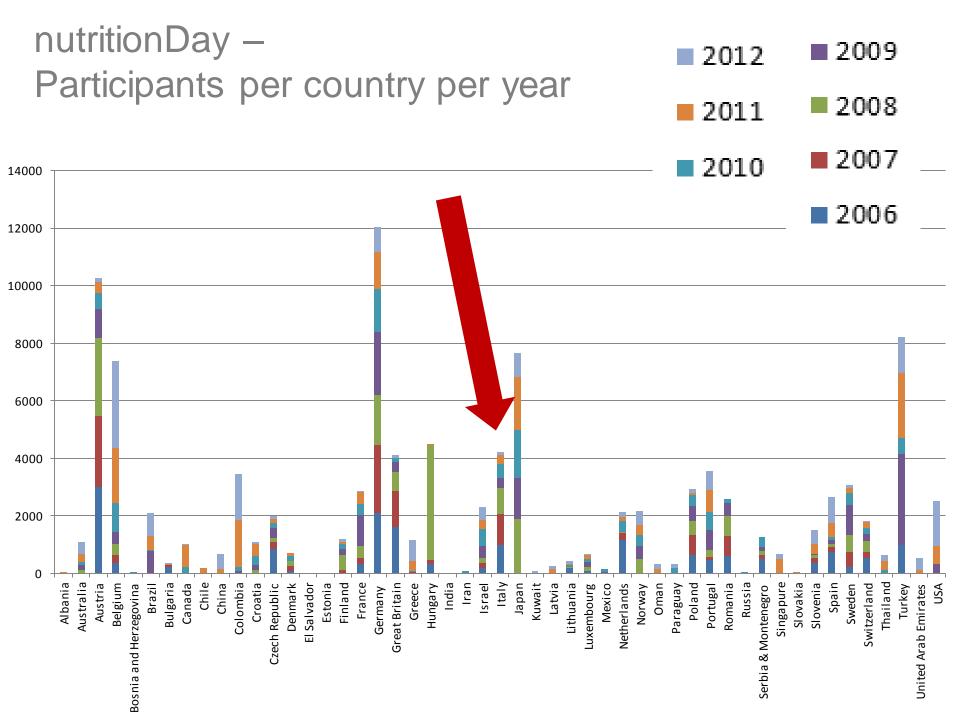
nutritionDay – Participants per year

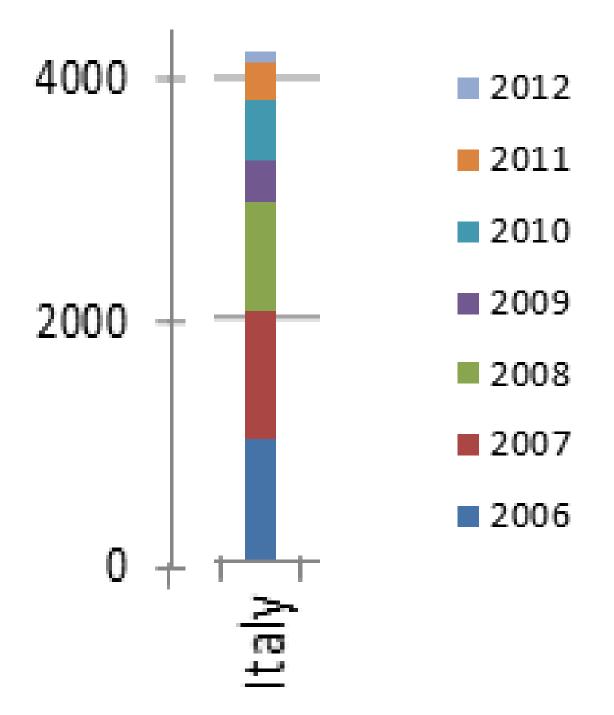












nutritionDay

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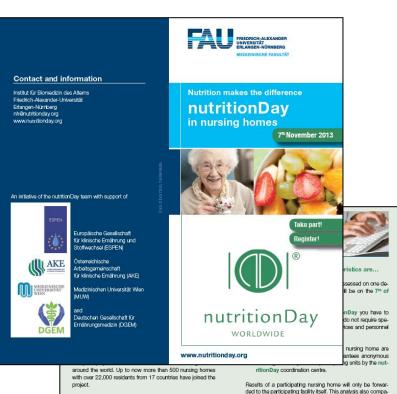
Participation

Recent Activities

Limitations & Strengths



New nD Flyers



Your profit

Quality andat

Participating in nutritionDay with your nursing home will provide valuable information on the nutritional status of residents in your facility. Information received can be used for quality safety and quality improvement purposes.

Benchmarking:

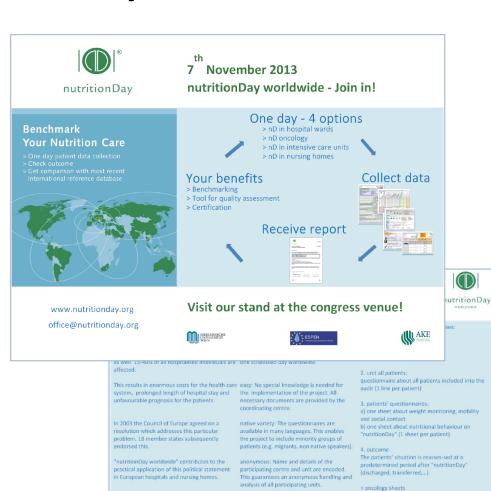
Your nutritionDay report compares the nutritional situation of your nutrition have residents with all other participating nursing homes and therewith provides specific benchmarking of your facility. Annual participation in nutritionDay gives an opportunity to monitor potentials and weaknesses of your institution over the years.

Certificatio

For successful participation you will receive a nutritionDay certificate. Data entry can be easily performed online over the nutritionDay website: www.nutritionday.org Results of a participating nursing home will only be forwarded to the participating facility fiself. This analysis also compares your individual nursing home results to all nursing homes participating in the same year and thus provides a worldwide benchmarking of your facility.

Your nutritionDayparticipation -

- promotes good nutritional care in your institution
- increases awareness for malnutrition in your facility
- monitors the development of the nutritional situation of residents in your nursing home over years
- provides an anonymous comparison of your nursing home to other nursing homes worldwide
- opens doors for an active partnership of nursing home residents, nurses and physicians of your institution
- may improve the nutritional situation and quality of life of your nursing home residents



addresses improved patient safety and quality of of its own results to reference data of all units

office@nutritionday.org

comparable: Each ward receives a comparison

of the same speciality type. Repeated

participation allows benchmarking.

The project "nutritionDay worldwide"

www.nutritionday.org

care by raising awareness and increasing

knowledge about disease related malnutrition.

for all oncological patients in your ward

or data sheets can be sent via mail to the

Collected data can either be transfer-red online



New nD Feedback Reports

Results on one Page Structural aspects of the nutritionDay audit (Sheet I) Number of residents Number of participants nutritionDay 32 [5-98] Resident per Nurse 2.3 [1.5-6.2] Dietician or person dedicated to nutritional care in your nursing home unit? Nutritional standards/guidelines existing? Characteristics of residents of your nursing home unit (Sheet II) 78% of your residents are female. The mean age of your residents is 82 [56-91]. Your country: 75% female, mean age 87 [63-98], NutritionDay: 69% female, mean age 83 [41-96]. The tables show the prevalence of cognitive and mobility restraints. 60% = partially ■ light to moderate S ambulatory Nutritional situation of residents 25 [16-33] BMI (kg/m²) BMI <20 24.5 15.8 Subj. estimation of staff "no. of main. residents" MNA malnourished residents 18.4 15.5 weight loss within last year "yes' 12.2 30.4 weight loss >5kg within last year "yes" Illa -9.4 (cal.) Calculation based on entered information, MNA Mini Nutritional Assessment Amount eaten on nutritionDay ("the resident today" sheet IIIb) = 1/2 portion 88 1/4 portion mothing IIII don't know nutritionDay 2012 - Results for centre 2413 and unit 3582 (AT) - Page 2/7 - Created on 07/05/2013 16:31:00

Results in Detail

working in your unit.

I. Level: nursing home unit

a) Structure of your nursing home unit (Sheet I)

The table gives an overview of the structure of your nursing home unit - here you can see who is

feature	unit	country	nutritionDay
Number of residents	89	34 [13-56]	35 [10-83]
Number of participants nutritionDay	49	32 [5-98]	29 [5-257]
Participation rate	55%	100 [55-100]	100 [29-100]
Residents per professional nursing staff	17.8	2.3 [1.5-6.2]	3.8 [1.5-12.3]
Residents per assistant nursing staff	4.2	9 [2.7-30]	5 [1.3-36]
Permanent physician available	89	30 [6-55]	25 [6-74]
Residents per external physician	89	6 [1.9-24]	10 [2.2-60]
Residents per director of nurses	-	33 [13-56]	34 [10-76.7]
Residents per dietician/dietetic technician		34 [20-56]	35 [16-74]
Residents per physical therapist/occupational therapist/speech therapist	89	22 [5-54]	27 [5.4-76]
Residents per music therapist/animator		22 [7-51]	21.7 [7.4-55]
Residents per community service/volunteer		11 [1.5-43]	11.3 [1.6-56]

b) Quality criteria for nutrition in your nursing home unit (Sheet I)

atician/Oscotrophologist

You have indicated that O dietician[s]/excotrophologist[s] is/are responsible for residents in your unit. The desired goal is that at least one dietician/oecotrophologist[s] is responsible for residents in your unit. Your unit has not reached this goal. 54% of all nursing home units in your country and 43% of all nursing home units indicate that at least one dietician/oecotrophologist is responsible for the residents.

Person responsible for nutritional care

You have indicated that 0 person(s) is/are responsible for nutritional care in your nursing home unit. The desired goal is that at least one person dedicated to nutritional care is responsible for residents in your unit. Your unit has not reached this goal. In 52% of all nursing home units in your country and in 99% of all nursing home units at least one person is dedicated to nutritional care.

Assessment of weigh

You have indicated that residents in your nursing home unit are weighed approx. once a month. You have reached the desired goal of weighing residents at least 1 x per month. 90% of all national nursing homes and 83% of all nursing homes internationally weigh their residents 1x per month.

Nutritional screening

You have indicated that you screen your residents for malnutrition or risk of malnutrition only at admission. You have not reached the desired goal of performing a nutritional screening at least 1 x per month. In 79% of all national nursing home units and 57% of all international nursing home units nutritional screening is performed 1 x per month.

Standards for nutritional screening

You have indicated that enteral and parenteral nutrition is performed according to (answer missing). You have not reached the desired goal of performing nutritional care according to national or local standards. In 86% of all national nursing home units and 69% of all international nursing home units clinical nutrition is performed according to local or national standards.

nutritionDay 2012 - Results for centre 2413 and unit 3582 (AT) - Page 3/7 - Created on 07/05/2013 16:31:00

b) Nutritional status of residents

Number of alerting nutritional results

II	25	fac ant		
	II 25 [16-33]		24 [18-35]	24 [17-35]
	n	%	%	%
cal.	12	24.5	15.9	16.8
cal.	18	36.7	30.4	29.7
II				
	7	14.3	11.8	9.9
	17	34.7	15.2	17.2
IIb				
	9	18.4	18.9	15.5
	22	44.9	46.2	41.3
Illa	6	12.2	34.6	30.4
	6	12.2	34.6	30.4
	-	-	10.9	9.4
IIb				
	3	6.1	26.3	13.3
cal.	-		3.4	4.4
cal.			5.2	4.8
II .				
	-	-	13.4	10.1
	-	-	3.3	2.2
	-	-	0.4	0.3
	-	-	0.1	0.1
	-	-	0.2	0.1
	IIIb IIIa IIIb Cal. Cal. II	II 7 17 18 9 22 18 6 6 - 18 18 3 18 18 18 18 18 18 18 18 18 18 18 18 18	II 7 14.3 17 34.7 IIb 9 18.4 4.9 IIIa 6 12.2 6 12.2 6 12.2 1	7

car caracter bases on data citaly, when will reached a research

Nutritional intake in previous week (Sheet IIIa)







a bit less than usual
 <a href="#

Summary of alerting nutritional results of your nursing home resident

- 24% of all residents are malnourished according to BMI (< 20kg/m²)
- According to nursing staff estimations 14% of all residents are classified as malnourished.
- According to Mini Nutritional Assessment (MNA) (Sheet IIIa) 18% are classified as malnourished and 45% are at nutritional risk.
- $\bullet \quad 12\% \ \text{of all residents have lost weight within the last year and } 0\% \ \text{of which have lost over 5 kg}.$
- 18% of all residents have eaten less than usual (see figure).

nutritionDay 2012 - Results for centre 2413 and unit 3582 (AT) - Page 5/7 - Created on 07/05/2013 16:31:00

nutritionDay in NHs



Styria Initiative

 Residents' / proxies' complaints and benchmarking need

nD 2012: 61 NHs
 104 units
 3125 residents

Discussion at political level





Nursing home law will be revised in order to improve nutritional care

nutritionDay

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Strengths & Limitations





Strengths

- Worldwide, well-known, exciting project
- Large and growing database
- Yearly repetition continuous data collection
- Data at individual, unit, country level

Limitations

- Data assessment by numerous persons
 - → limited quality
- Limited number of fixed parameters
- Hypothesis generating

nutritionDay worldwide Save the date!



6. November 2014

nutritionDay

Overview of ESPEN European Project

Thank you for your attention!

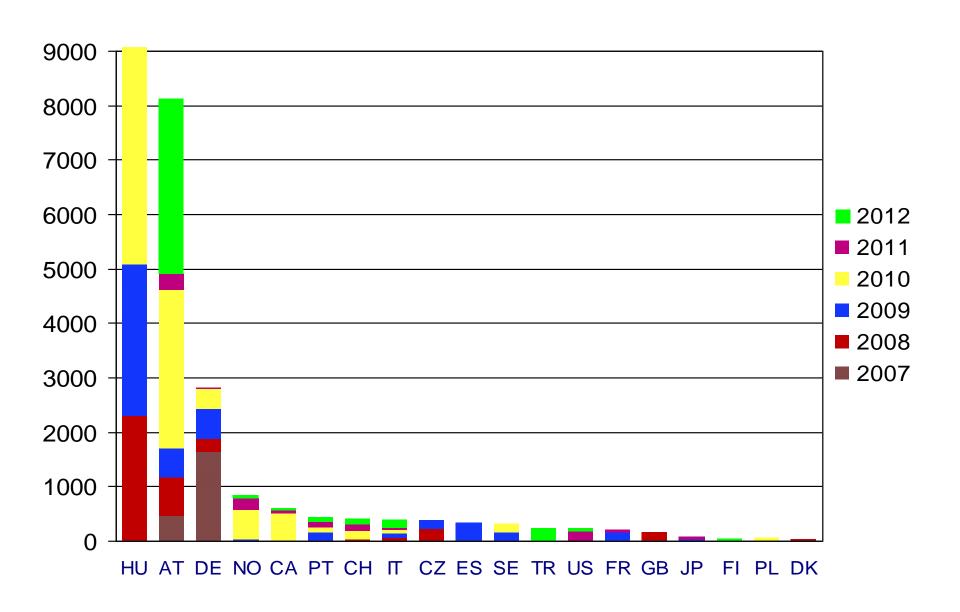




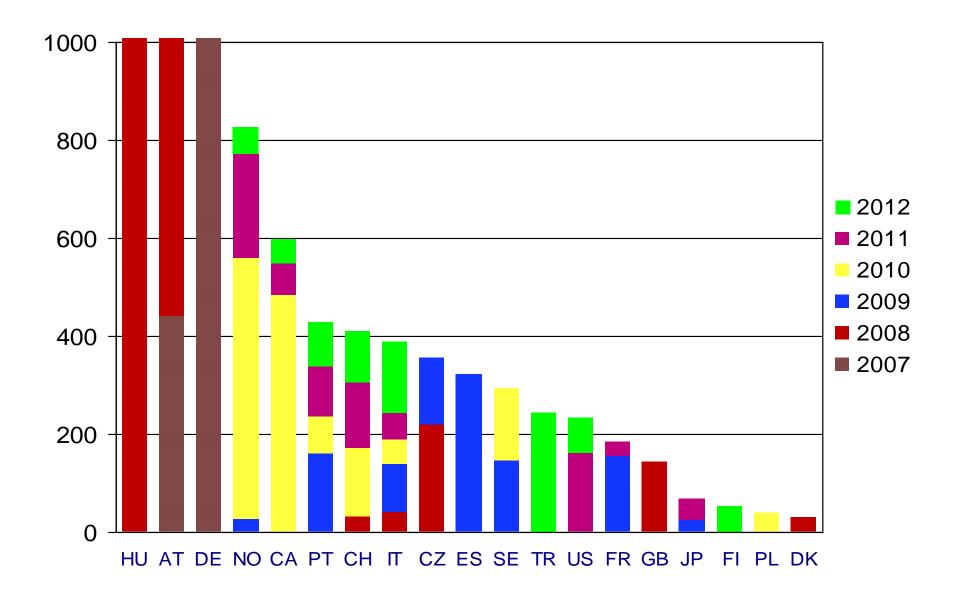




nD in NHs – participants per country 2007-2012



nD in NHs – participants per country 2007-2012





Feedback Reports

- New structure: Results on one page
 - Results in detail:
 - unit level including 5 quality indicators
 - individual level: characteristics & nutritional status
- Results presented in figures, graphics and text
- Results presented at unit level
- Unit results compared to national and international nD data from last 3 years
- Definition of quality indicators of nutritional care



Challenges

- Time constraints of coordination teams
- Decreasing participation low interest of NHs
 - time constraints
 - regulatory constraints
 - many other obligations besides nutritional care
- Different health care systems in different countries
- To improve network of stakeholders



Contact and information

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An initiative of the nutritionDay team with support of



Europäische Gesellschaft für klinische Ernährung und Stoffwechsel (ESPEN)



Österreichische Arbeitsgemeinschaft für klinische Ernährung (AKE)



Medizinischen Universität Wien (MUW)



and
Deutschen Gesellschaft für
Ernährungsmedizin (DGEM)

Nutrition makes the difference

nutritionDay in nursing homes

7th November 2013



Take part!

Register!



nutritionDay

WORLDWIDE

www.nutritionday.org



Background

Nursing home residents are often elderly people who have an increased need for care. Furthermore many nursing homes have limited personnel resources and therefore providing comprehensive care for all residents is difficult. This situation in nursing homes may also lead to less time for nutritional care for residents.

In 2007 for the first time **nutritionDay** was successfully performed in nursing homes. Its overall aim is to evaluate the current state of the nutritional status of nursing home residents using easy to complete questionnaires.

Since the first conduction of **nutritionDay** in Austria and Germany the project has been well established in nursing homes around the world. Up to now more than 500 nursing homes with over 22,000 residents from 17 countries have joined the project.

Your profit

Quality safety

Participating in nutritionDay with your nursing home will provide valuable information on the nutritional status of residents in your facility. Information received can be used for quality safety and quality improvement purposes.

Benchmarking:

Your nutritionDay report compares the nutritional situation of your nursing home residents with all other participating nursing homes and therewith provides specific benchmarking of your facility. Annual participation in nutritionDay gives an opportunity to monitor potentials and weaknesses of your institution over the years.

Certification:

For successful participation you will receive a nutritionDay certificate. Data entry can be easily performed online over the nutritionDay website: www.nutritionday.org



Methods

nutrition Day's three main characteristics are...

On one day: The nutritional situation is assessed on one defined day. This year nutritionDay will be on the 7th of November 2013

Easy: Participation is easy. On nutritionDay you have to complete three questionnaires which do not require special skills and knowledge or extra devices and personnel resources.

Anonymous: Name and details of your nursing home are encoded and anonymous. This guarantees anonymous handling and analysis of all participating units by the nutritionDay coordination centre.

Results of a participating nursing home will only be forwarded to the participating facility itself. This analysis also compares your individual nursing home results to all nursing homes participating in the same year and thus provides a worldwide benchmarking of your facility.

Your nutritionDay participation -

- promotes good nutritional care in your institution
- increases awareness for malnutrition in your facility
- monitors the development of the nutritional situation of residents in your nursing home over years
- provides an anonymous comparison of your nursing home to other nursing homes worldwide
- opens doors for an active partnership of nursing home residents, nurses and physicians of your institution
- may improve the nutritional situation and quality of life of your nursing home residents



New Feedback Reports

Quality indicators of nutritional care at unit level

- Body weight measurement at least once a month
- Screening for malnutrition at least once a month
- Person responsible for nutritional care
- Dietitian available
- Written procedures for nutritional care



Future strategies

- Modification of questionnaires
 - shorten → more focused
 - additional questions, e.g. end of life situation, type of NH
- More focused
 - geriatric nursing homes (age >65 y)
 - few countries
- Inclusion of students for nD data assessment
- Assessment of NH structures and needs in different countries
- Competition "Europeans best nutritional care concept"



Our interests

- Increase awareness for nutrition
 - → improve nutritional care
 - → avoid malnutrition
 - → improve quality of life of residents
- Identification of determinants of dietary intake and nutritional status
 - individual level
 - institutional level
- Identification of effective measures at different levels to avoid malnutrition

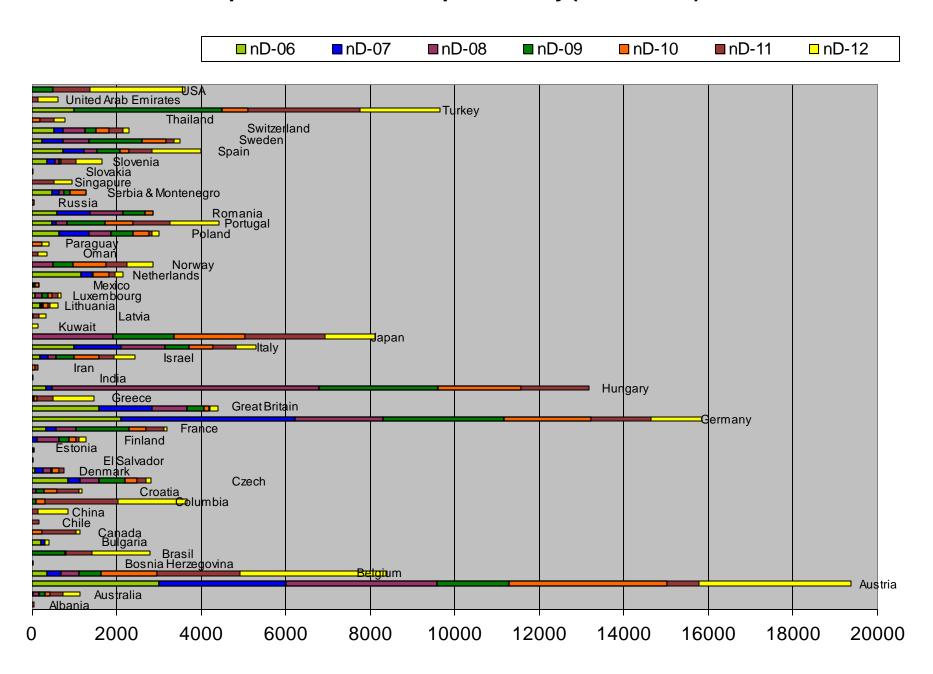
nD in NHs

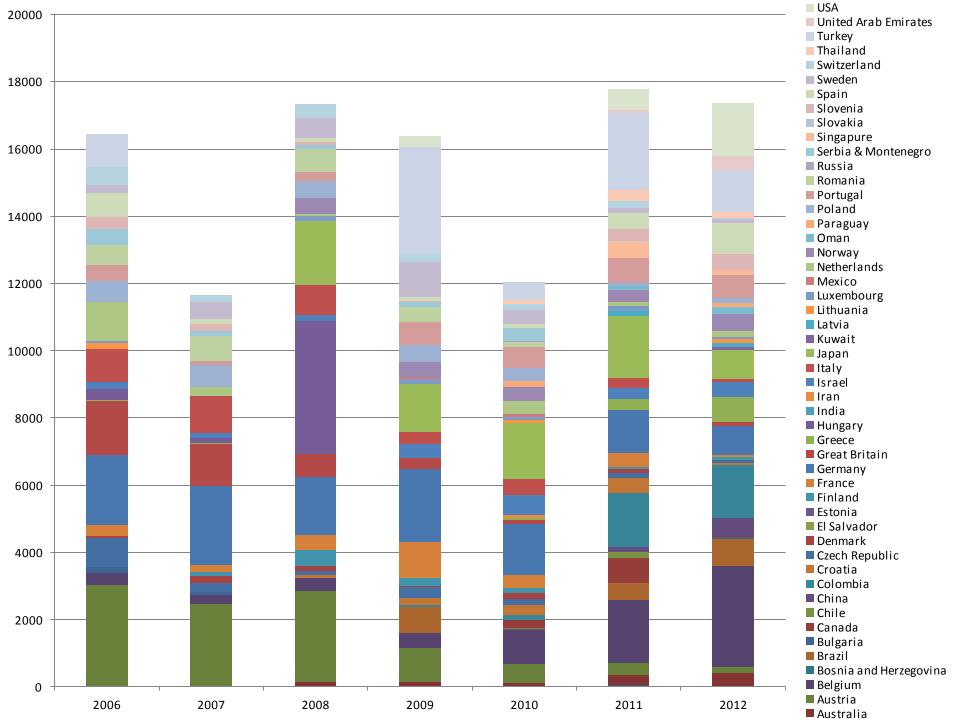


Results 2007-2011 at unit level (n=658)

	Mean	SD	P5	Median	P95
Unit characteristics					
Mean number of occupied beds		47,9	12,0	35,0	102,1
Mean number of participants	31,3	27,8	5,0	26,0	71,0
Participant characteristics					
Mean age (years)	78,7	13,0	46,0	82,9	89,9
Females (%)	71,4	22,1	21,4	75,0	100,0
Cognitive impairment (%)	70,0	25,2	19,9	73,6	100,0
Mobility impairment (%)	57,6	27,8	5,5	62,5	100,0
Dysphagia (%)	14,2	16,4	0,0	9,7	47,4
Chewing problems (%)	26,8	24,4	0,0	20,1	80,7
Nutritional status					
Mean BMI (kg/m²)	25,0	2,3	21,5	25,0	28,5
MNA: at risk of MN (%) (n=156)	42,6	21,0	10,8	41,7	80,3
MNA: MN (%) (n=156)	16,5	15,0	0,0	12,5	46,2
Weight loss within last year (%)		18,9	1,7	33,3	62,5
Weight loss > 5 kg within last year (%)	11,8	13,0	0,0	8,3	35,0

patient recruitment per country (29.08.2013)





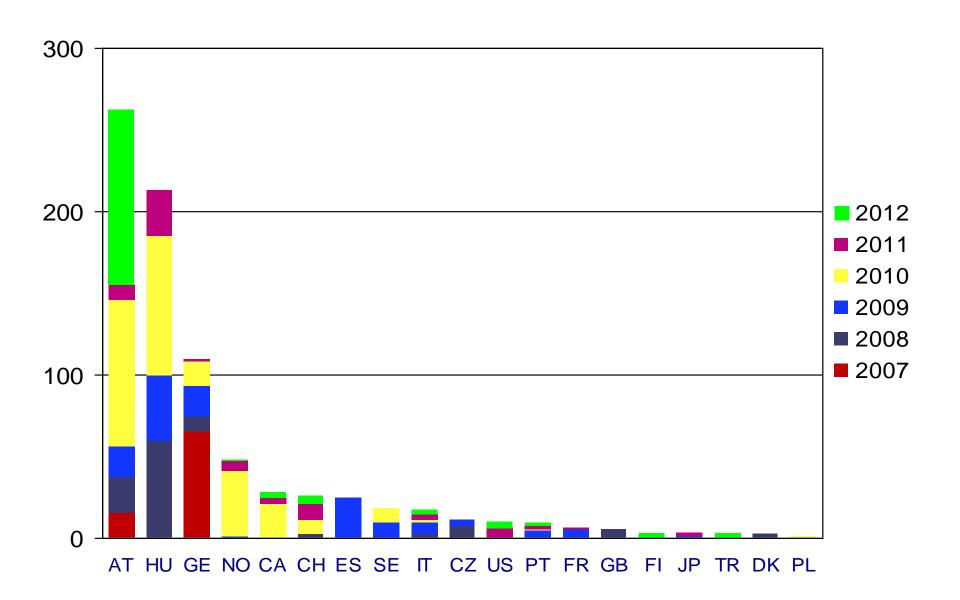
nD in NH - Teilnahme



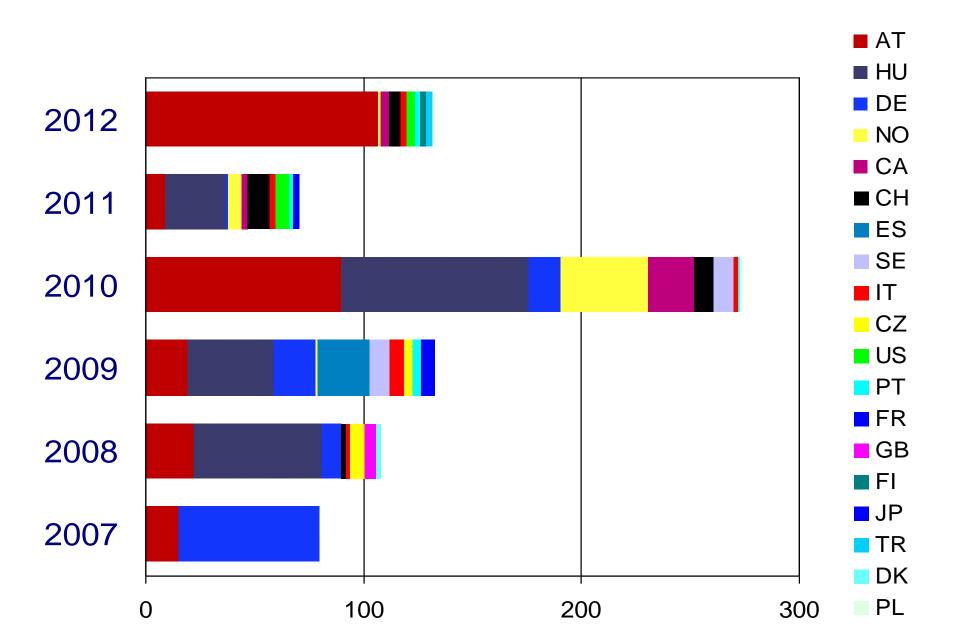
Jahr	Länder	Heime	Wohn- bereiche	Bewohner	٦
2007	2	40	80	2.067	
2008	8	63	108	3.718	
2009	11	105	133	4.924	26.237
2010	10	103	274	8.878	20.237
2011	11	51	71	2.630	
2012	8	102	132	4.020	
		464	798		ı

19 Länder (Dänemark, Deutschland, Finnland, Frankreich, Großbritannien, Italien, Japan, Kanada, Norwegen, Österreich, Polen, Portugal, Schweden, Schweiz, Spanien, Ungarn, USA, Tschechien, Türkei)

nD in NHs – units per country 2007-2012



nD in NHs – units per country 2007-2012



nD in NHs – pariticpants per country 2007-2012

