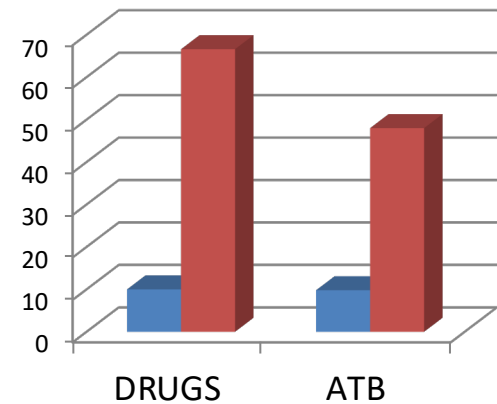


The importance of measurement:

Evidence and research
is the basis for everything



Pavel Tesinsky

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Intensive Metabolic Care



a problem does not exist if not recognized

malnutrition is a problem

- recognition
- definition
- consequences
- impact
- solution



a problem does not exist if not recognized

- recognition
- definition
- consequences
- impact
- **solution?** We keep on working on it

Malnutrition is still a problem

... even in highly developed economies



malnutrition is a health, social, public and economic problem

WHO:

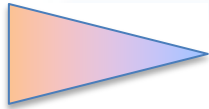
.... a world free from all forms of malnutrition
where all people achieve health and well-being...



Put malnutrition on a public health agenda

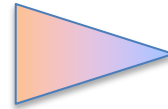
The 3 development efforts to advance nutritional care

1



**validated screening
tools**

2



**cost of disease -
related malnutrition
and economic
considerations in the
use of medical
nutrition**

3

**building health
economic data into an
effective
communication
strategy**



1. validated screening tools

- MUST
 - MNA
 - NRS2002
 -
-
- *consistent criteria across different groups, care settings and countries*



2. economic considerations

cost of disease - related malnutrition and economic considerations in the use of medical nutrition

- *malnutrition as a major public health issue*
- *a model that could be adapted and applied*



building health economic data into effective communication strategy

- *science*
- *practice*
- *politics*
- *media*



presentation

- present malnutrition as the **major and costly** problem
- focus the healthcare system on trying to solve it
- establish optimal nutritional care as a **cost effective solution**

everyone should be part of the process



methods

develop an
inarguable
“business” case
(STORY)

have ***important***
others support
and make the case

make sure the case
is delivered
compellingly to
the right audience



key questions

1. How big is the problem locally?
2. What does it cost now? (patients, healthcare system)
3. Can the problem be effectively tackled?
4. How much do we need to spend to save?



1. How big is the problem of malnutrition?

necessity of local prevalence data

- large scale, validated methodology
- comparison against other countries
- publication in peer reviewed journals
- communication with political stakeholders
- basis for media messaging and P.R. campaigns

message No 1: We have a big problem



2. How much does it cost?

- healthcare activity databases
- get official unit cost data
- use as basis for local models (care setting / hospital / regional healthcare group)

message No 2: We have a costly problem



3. Is there a cost effective solution?

Effect of ONS on infections, pressure ulcers, wound healing, fracture healing.

Elia M; Normand C; Leviano A; Norman, K. Systematic review of the cost and cost effectiveness of standard oral nutrition supplements in the hospital setting (2015) Clinical Nutrition

Complications

-35%

Length of Stay

-13 % to 21%

(meta-analyses)

Reduced episode costs

-12%

Mortality

-35%

Readmissions

-16.5%

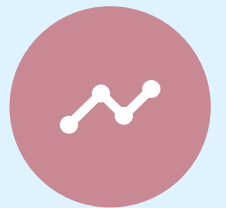
message No. 3:

the problem can be effectively tackled



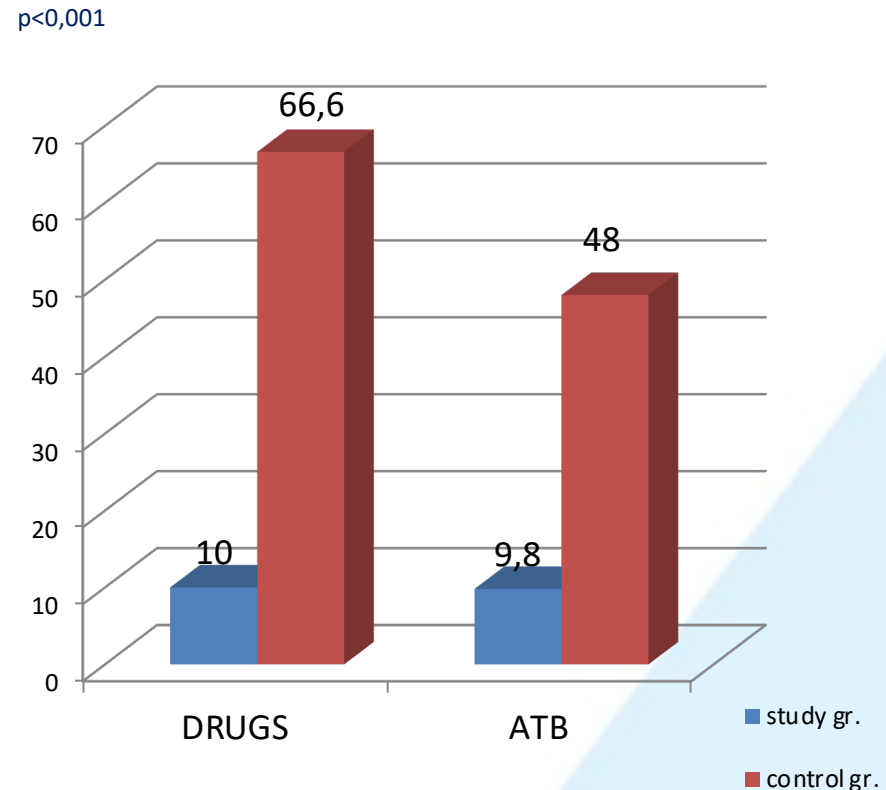
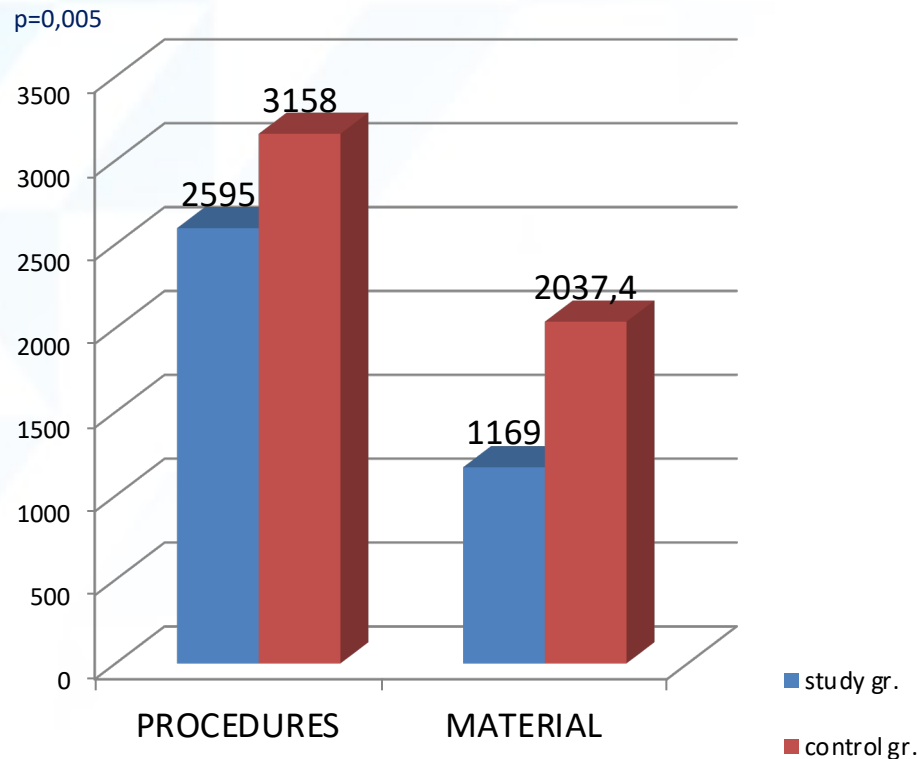
4. What would it cost to reduce the problem?

essential to apply results to local situation



(EUR, median)

oncology therapy (chemotherapy, radiotherapy, etc.) not included



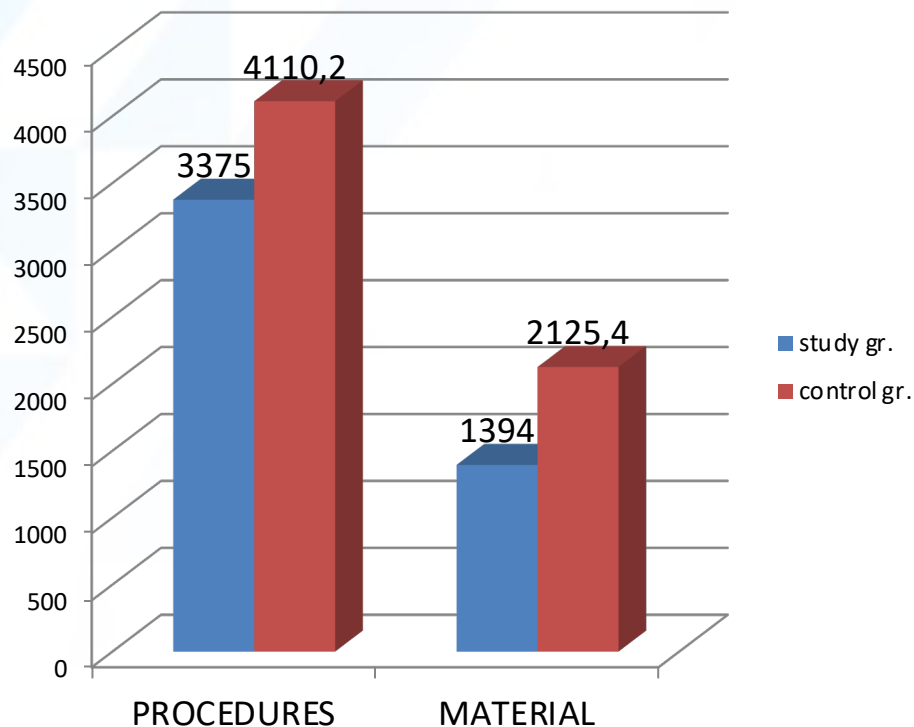
Manasek, V., Bezdek, K., Foltys, A., Klos, K., Smitka, J., and Nmechlik, D. **Effect of peri-operative high protein nutritional support on post-operative complications and costs of treatment in patients with colorectal cancer.** *Eur J Cancer.* 2013; 49: S519

Total costs, 180 d after discharge

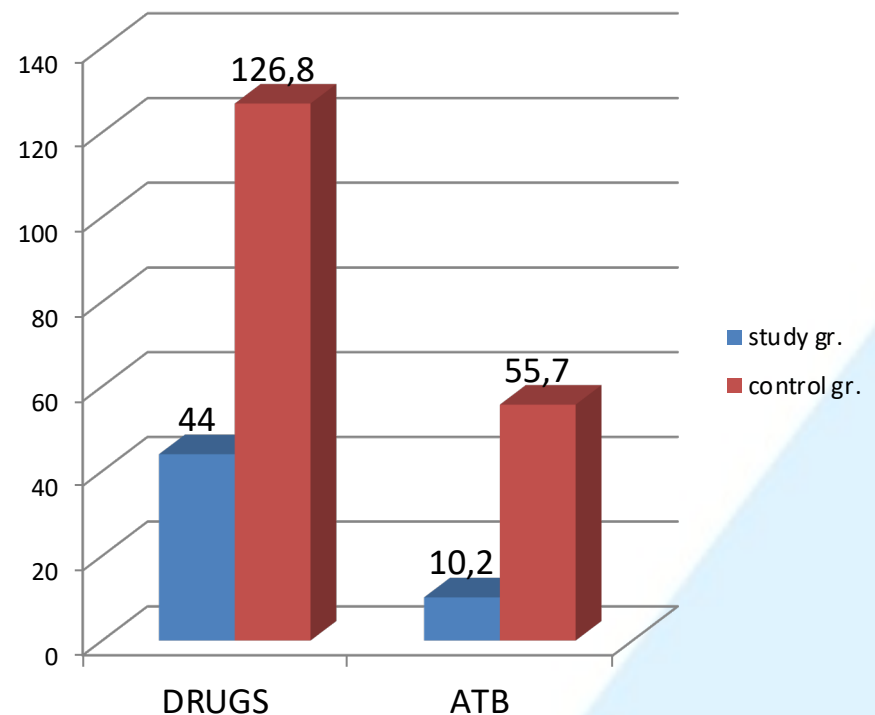
(EUR, median)

oncology therapy (chemotherapy, radiotherapy, etc.) not included

p<0,001, P=0,005



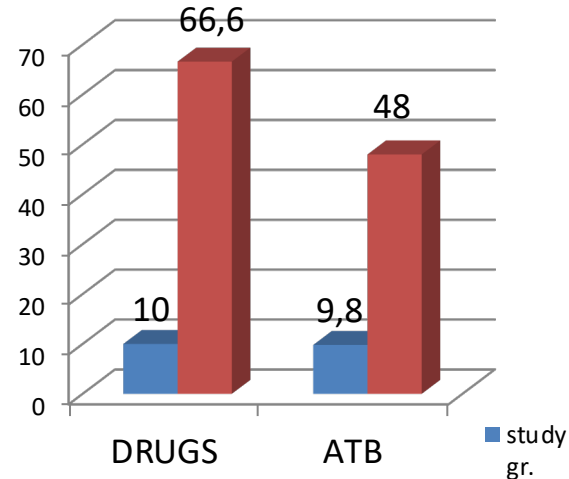
p<0,001



Manasek, V., Bezdek, K., Foltys, A., Klos, K., Smitka, J., and Nmechlik, D. **Effect of peri-operative high protein nutritional support on post-operative complications and costs of treatment in patients with colorectal cancer.** *Eur J Cancer.* 2013; 49: S519

4. What would it cost to reduce the problem?

essential to apply results to local situation



message No. 4:
Much less than treating complications



The role of the ONCA

- bridge between clinicians, scientists, patients, politicians, media, and public
- help to improve knowledge of malnutrition, complications and costs of public and politicians
- make available the scientific / clinical data for non-medical professionals / media
- support education at every stage



costs of treatment of some complications / costs of sipping

therapy	costs/patient / PM colitis CZK (EUR)
antiemetic prophylaxis (1 cycle)	680-4 500 (23-175 €)
pegfilgrastim - 1 amp. Neulasta	23 000 (890 €)
therapy for pseudomembranous colitis (Dificlir) 10 days	43 000 (1670 €)
therapy for febrile neutropenia in a hospitalized patient	20 000 – 80 000 (780 – 3100 €)
material costs for one CVC	1000 (38 €)
parenteral nutrition one day	2000 (76 €)
Sipping / one month	1680 (65 €)