



IL RUOLO DELLA NUTRIZIONE ENTERALE

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Dott.ssa Liliana Belgioia Università degli Studi di Genova

INTRODUCTION:

Head and neck cancer and its treatment may have serious functional consequences for patients.

- Nutritional compromission
- at diagnosis due to dysphagia or odynophagia from the primary tumor
- during RT malnutrition rises to 41-88%
- sequelae of RT and weigh loss may continue for several weeks after RT

1340 pts

BJC

British Journal of Cancer (2013) 109, 1093-1099 | doi: 10.1038/bjc.2013.458

Keywords: head and neck cancer; weight loss; radiotherapy; overall survival; disease-specific survival; malnutrition

Critical weight loss is a major prognostic indicator for disease-specific survival in patients with head and neck cancer receiving radiotherapy

J A E Langius*, S Bakker, D H F Rietveld, H M Kruizenga, J A Langendijk, P J M Weijs and C R Leemans

70% had no WL

16% had <5% WL

9% had >5–10% WL

5% had >10% WL

Five-year OS rate

71%

59%

47%

42%

(P<0.001)

NUTRITIONAL SUPPORT:

► Dietary counseling and nutritional supplements



▶ Parenteral nutrition

ENTERAL NUTRITION:

50%-70% of patients treated with CRT:

- will have severely impaired swallowing
- require an enteral feeding tube (FT) during or immediately after treatment
 - → PEG or NGT

RISK FACTORS:

Patient related: pretreatment weigth loss and/or dysphagia

BMI, age, PS

heavy tabacco/alcool use

<u>Tumour related</u>: large T

primary site (hypopharynx and larynx cancer)

<u>Treatment related</u>: accelerated or hyperfractionated RT

cc CT

use of post CRT neck dissection

TIMING: PROPHYLACTIC vs REACTIVE



> 2 randomized trials

> Retrospective studies



Radiotherapy and Oncology

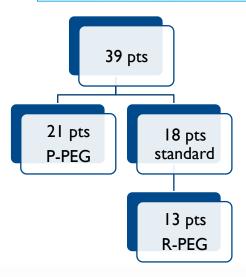
Sudjection recy

journal homepage: www.thegreenjournal.com

Randomized trial

Impact of the prophylactic gastrostomy for unresectable squamous cell head and neck carcinomas treated with radio-chemotherapy on quality of life: Prospective randomized trial

Sébastien Salas ^{a,1}, Karine Baumstarck-Barrau^{b,*,1}, Marc Alfonsi ^c, Laurence Digue ^a, Danielle Bagarry ^a, Nasreddine Feham ^d, René Jean Bensadoun ^e, Thierry Pignon ^f, Anderson Loundon ^b, Jean-Laurent Deville ^a, Michel Zanaret ^g, Roger Favre ^a, Florence Duffaud ^a, Pascal Auquier ^b



Endpoint: QoL

Patients evaluation:

- > T0
- 4th week
- RT end
- 6 months

Results:

- No differences in BMI at RT end and at 6 months
 - Better QoL at 6 months with P-PEG

IMPACT OF PROPHYLACTIC PERCUTANEOUS ENDOSCOPIC GASTROSTOMY ON MALNUTRITION AND QUALITY OF LIFE IN PATIENTS WITH HEAD AND NECK CANCER—A RANDOMIZED STUDY

Ewa Silander, RD, ¹ Jan Nyman, MD, PhD, ² Mogens Bove, MD, PhD, ³ Leif Johansson, MD, PhD, ⁴ Sven Larsson, MD, ⁵ Eva Hammerlid, MD, PhD, ¹



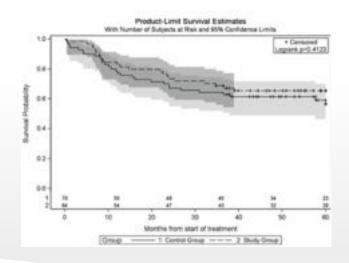
Evaluation: T0, 1-2-3-6-12-24 month

RESULTS:

- Use of enteral feeding: 177 vs 122 days (p< 0,0001)</p>
- QoL at 6 months > P-PEG

Weight loss	6 months	l year	2 years
P-PEG	11,2%	11,1%	8,9%
Control	12,4%	9%	6,6%

Malnut rition	2 months	6 months	l year	2 years
P-PEG	6%	62%	52%	48%
Control	19%	71%	56%	37%



TIMING:

Study	% weigth loss	Comments	
	ONS: 6.1%	NIa difference	
Nugent 2010	NGT: 8.5%		
(76 pts)	R-PEG: 8.7%	No difference	
\	P-PEG:8.5%		
Chen 2010 (120 pts)	P-PEG: 14% R-PEG: 8%	P < 0,001 RT end	
Williams 2012	P-PEG: 6.1%		
* * IIIIaiii 5 2012	R-PEG: 7.1%	No difference	
(104 pts)	NGT: 6.2%		
Olson 2013 (445 pts)	P-PEG: R-PEG:	No differences	
Lewis 2013 (109 pts)	Control: 10.5% P-PEG: 4.3% R-PEG: 10.1%	P< 0,001 RT end	
Kramer 2014 (86 pts)	P-PEG: 5.6% R-PEG: 7.6%	No difference	

PEG vs NGT:

Evaluate:

- Weigth loss
- > Complications
- QoL
- > FT dependance
- Cost



PEG vs NGT:WEIGHT

Study		Weight loss
Magnè 2001	NGT 40 pts PEG 50 pts	Weight and BMI comparable at 3 and 6 weeks
Corry 2009- prospective	NGT 73 pts PEG 32 pts	At 6 weeks greater with NGT >% pts with NGT had loss> 10% body weigth
Sadivan 2012- prospective	NGT 50 pts PEG 50 pts	Weight, HB level, mid-arm circumference at 1-6 weeks and 6 month better with PEG

PEG vs NGT: QOL

Study		Results
Magnè 2001	NGT 40 pts PEG 50 pts	Better QoL with PEG
Corry 2009- prospective	NGT 73pts PEG 32pts	I week: Worse pain with PEG vs NGT (p<0.001) 6 week: NGT 'more incovenient' and interfer with socialactivities
Sadivan 2012- prospective	NGT 50 pts PEG 50 pts	Better QoL with PEG (p<0.01)

PEG vs NGT: FT DEPENDENCE

Study		Results
Mekhail 2001	NGT 29 pts PEG 62 pts	Dysphagia more persistence with PEG at 3 and 6 months
Corry 2009- prospective	NGT 73 pts PEG 32 pts	57 vs 146 days (p<0.001) 8% vs 25% dysphagia G3 (p=0.07)

PEG vs NGT: COMPLICATIONS

Study		Dislodgements	Infections
Magnè 2001	NGT 40 pts PEG 50 pts	67% vs 8%	52% vs 16%
Corry 2009- prospective	NGT 73 pts	62%vs 19%	30% vs 66%
	PEG 32 pts	p<0,001	p=0.001
Sadivan 2012- prosp	NGT 50 pts	36% vs 0%	64% vs 4%
	PEG 50 pts	P<0.001	p<0.001

PEG:

- Colonic ileus
- Bowel perforation
- Gastrointestinal hemorrhage
- > Fistula

NGT:

- > Tube uncomfortable
- ➤ Tube blocking
- > Pharyngeal ulceration
- Refusal of reinsertion
- Bleeding

CONCLUSIONS:

TIMING:

Prophylactic approach:

- Preventing treatment related weigth loss
- Reducing rates dehydratation
- Reducing rates hospitalizations
- Avoiding treatment breaks

Reactive approach:

- Limited to pts unable to mantain nutritional status
- Spare patients who do not need enteral nutrition
- Shorter duration of tube dependence
- Better functional long term outcomes

CONCLUSIONS:

PEG vs NGT:

PEG:

- More aesthetic
- Less disconfort
- > Fewer dislodgements
- Better weight preservation
- Better QoL

NGT:

- Easier to place
- Smaller risk of serious complication
- Lower cost
- Less late dysphagia
- Shorter duration of tube dependence
- Less need for pharyngoesophageal dilatation

OUR EXPERIENCE....

- Multidisciplinary discussion
- > Patients with supraglottic larynx, hypopharynx and tongue basis tumour
- > Patients with severe loss weight
 - nutritional and phoniatric evaluation -> prophilactic?

All patients -> Dietary counseling
 Nutritional supplements
 R-NGT

