



AZIENDA U.L.S.S. 9 TREVISO - UNIVERSITA' DEGLI STUDI DI PADOVA STRUTTURA COMPLESSA CLINICIZZATA DI OTORINOLARINGOIATRIA Centro Regionale per l'Oncologia Cervico-Facciale Direttore: Prof.ssa M.C. Da Mosto

Advanced head and neck cancer: surgery and quality of life

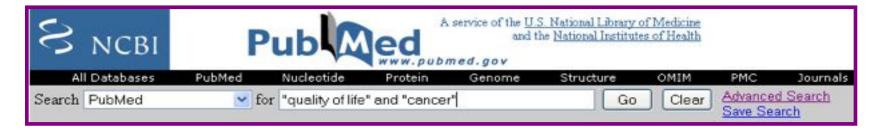
M.C. Da Mosto V. Lupato

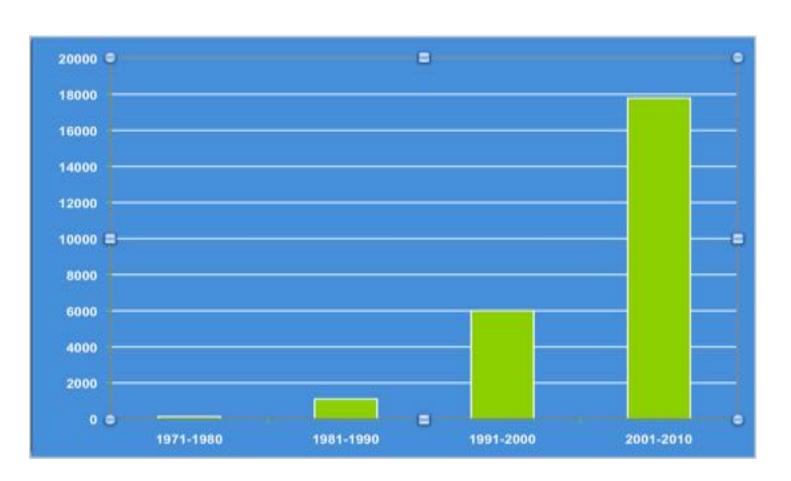
Tossicità e terapie di supporto nei trattamenti dei tumori del capo collo.

Treviso, 30 Gennaio 2015













Definition

An individual's perception of overall well-being

WHO: "an individual's perception of their position in life, in the context of the culture and values systems in their life, and in relation to their goals, expectations, standards, and concerns"

Gap theory: "the perceived discrepancy between the reality of what one has and what one wants, or expects or has had"

QoL HRQoL





Health-related QoL (HRQoL)

A subset of quality of life, which revolves around four core domains:

- physical functioning,
- psychological functioning
- social interaction
- disease and treatment related symptoms

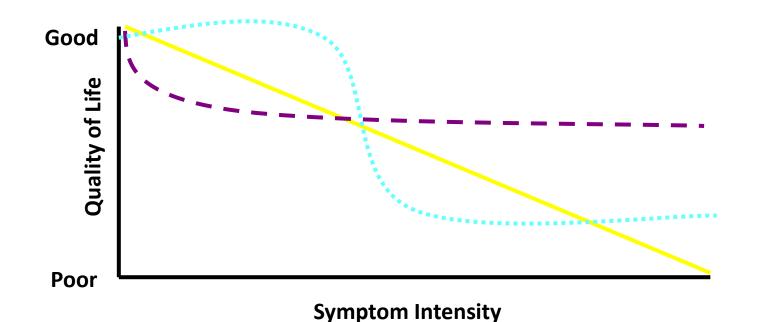
Obiectivity - Individual's perception





Symptoms and QoL

A distinction must be made between symptom assessment as a component part of a validated QOL tool and studies conducted specifically to assess a symptom







Health-related QoL instruments

1) Generic instruments: MOS SF-36

SIP

2) Cancer-specific instruments: <u>EORTC QLQ-C30</u>

FACT-G

3) Site-specific instruments: <u>EORTC QLQ-H&N35</u>

UW-QOL





Why is QoL evaluation critical in head and neck patients?

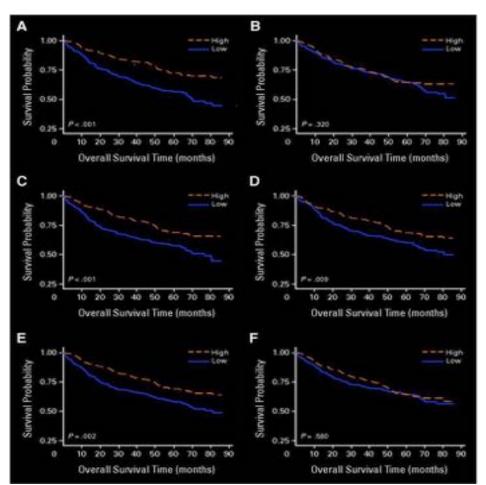
In head and neck cancer treatment, QoL issues and assessment of QoL outcomes are especially important for patients and their caregivers because of the potential impact on important functions such as:

- swallowing
- speech
- breathing
- cosmesis
- communication





Why is QoL evaluation critical in head and neck patients?



Quality of life scores can predict survival among patients with head and neck cancer





Clinical predictor of quality of life

- Feeding tube status
- Comorbid conditions
 - Tracheotomy tube
 - Time since diagnosis
 - Chemotherapy and radiation therapy
 - Cancer site and stage

- Primary site surgery
- Laryngectomy
- Neck dissection





Advanced head and neck cancer



demolitive surgery



salvage surgery after CT-RT



primary treatment





Advanced head and neck cancer surgery

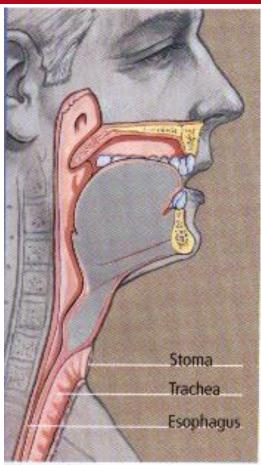
- Demolitive surgery
 - oral cavity and oropharynx: commando, pull through, hemi-total glossectomy
 - larynx and hypopharynx: partial/total laryngectomy; total hypopharyngolaryngectomy

+ ND

+/- Reconstruction with pedunculated or free flaps

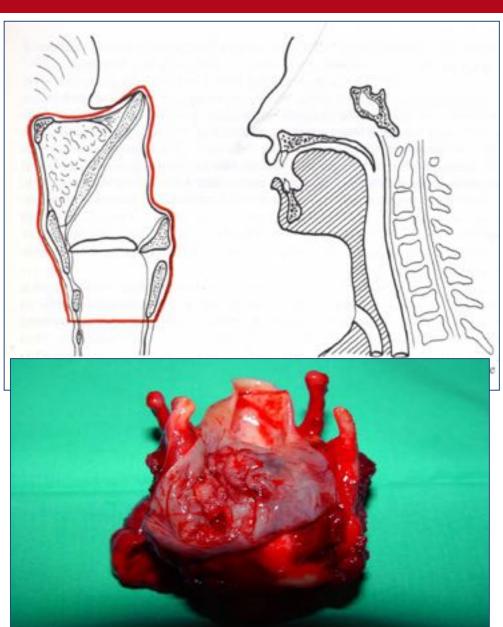






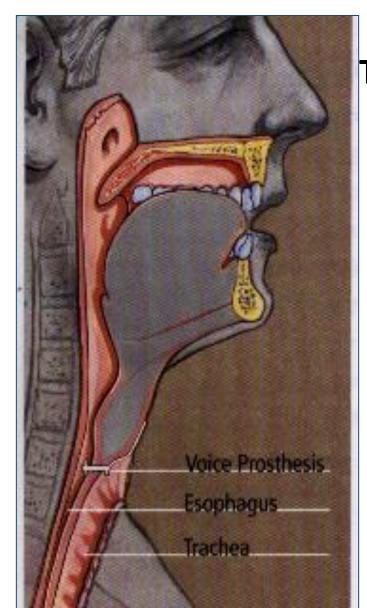
After laryngectomy

Total laryngectomy

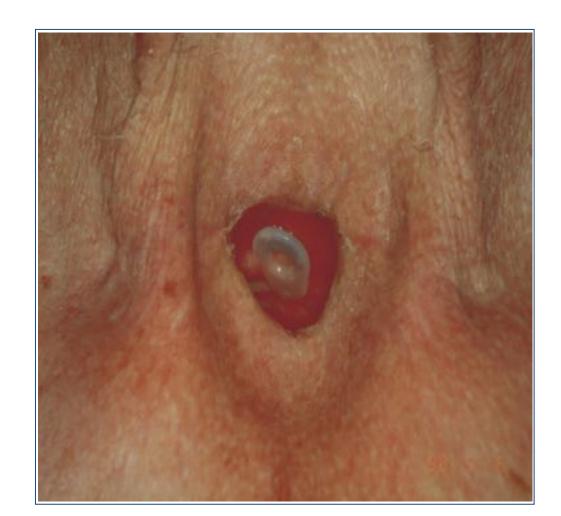








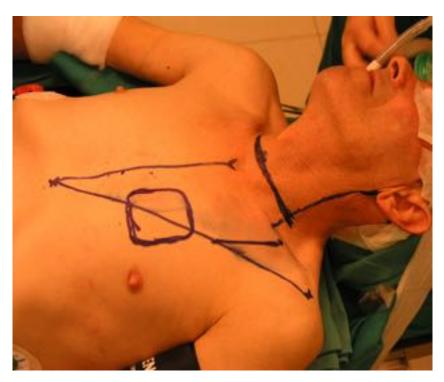
Total laryngectomy with t-e prosthesis







Total hypopharyngolaryngectomy and reconstruction with pectoralis major myocutaneous flap











Right «commando» with partial faryngectomy and glossectomy, partial mandibulectomy and ND

and reconstruction with rectus abdominis free flap





Neck dissection

Radical neck disssection

late 19° century

Functional neck dissection

Suarez 1952

Selective neck dissection

Byers 1985

Superselective neck dissection

More recently





1991 Classification	2002 Classification	2008 Update	2011 Classification proposed by Ferlito et al.
(Committee for Head and Neck Surgery and Oncology of the American Academy of Otolaryngology-Head and Neck Surgery)	(American Head and Neck Society and Committee for Head and Neck Surgery and Oncology, American Academy of Otolaryngology—Head and Neck Surgery)	(American Head and Neck Society and Committee for Head and Neck Surgery and Oncology, American Academy of Otolaryngology—Head and Neck Surgery)	(Members of International Head and Neck Scientific Group)
Radical neck dissection Modified radical neck dissection Selective neck dissection Supraomohyoid Lateral Posterolateral Anterior	Radical neck dissection Modified radical neck dissection Selective neck dissection: each variation is depicted by "SND" and the use of parentheses to denote the levels or sublevels removed	Classification and terminology of neck dissection has not changed. New recommendations have been made regarding the following: - Boundaries between levels I and II and between levels III/IV and VI	Any neck dissection is designated as "ND" and the removed lymph node levels or sublevels and/or non-lymphatic structures are denoted in parentheses
Extended neck dissection	Extended neck dissection	 Terminology of the superior mediastinal nodes (level VII) The method of submitting surgical specimens for pathologic analysis 	

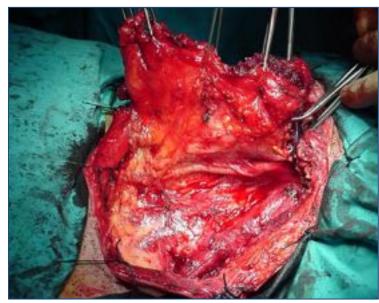




Radical neck disssection





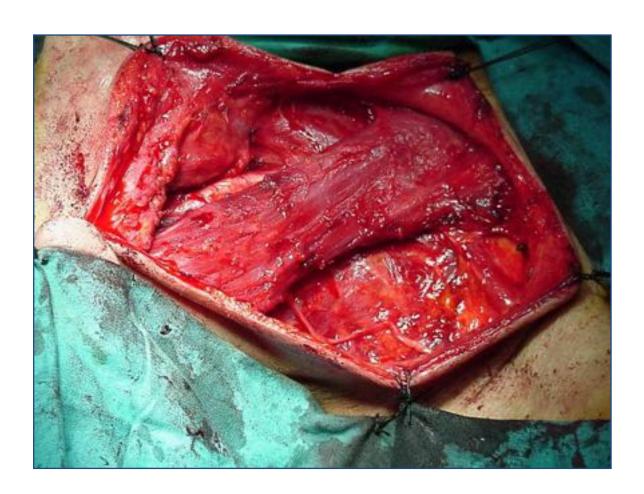








Modified radical neck dissection type 3 (Functional neck dissection)







Modified radical neck dissection type 1









Selective neck dissection Superselective neck dissection

if correctly used in selected patients in the absolute respect of the oncological safety, are procedures that allow to shorten the surgical times and to reduce functional and cosmetic morbidities improving the quality of life.





Long-term quality of life after treatment for locally advanced oropharyngeal carcinoma: Surgery and postoperative radiotherapy versus concurrent chemoradiation

Paolo Boscolo-Rizzo a.*, Marco Stellin a, Roberto Fuson a, Carlo Marchiori a, Alessandro Gava b, Maria Cristina Da Mosto a

cCRT (31) vs Surg and RT (26) [EORTC-QOQ30-EORTC QLQ-H&N35]

better long term QoL in cCRT group

cCRT: greater problems with teeth, open mouth, dry mouth and sticky saliva.

Surg and RT: higher problems with fatigue, pain, swallowing, social eating and social contact





Long-Term Quality of Life After Total Laryngectomy and Postoperative Radiotherapy Versus Concurrent Chemoradiotherapy for Laryngeal Preservation

Paolo Boscolo-Rizzo, MD; Francesca Maronato, MD; Carlo Marchiori, MD; Alessandro Gava, MD; Maria Cristina Da Mosto, MD

cCRT (28) vs Surg and RT (39) [EORTC-QOQ30-EORTC QLQ-H&N35]

better long term QoL in cCRT group

cCRT: sticky saliva, dry mouth

TL: lower social, role, and physical functioning

sleep disturbances, speech, senses,

pain (EORTC-QOQ30)





REVIEW

Comparison of quality of life outcomes in laryngeal cancer patients following chemoradiation vs. total laryngectomy

MARIA M. LOTEMPIO, MD, KEVIN H. WANG, BS, AHMED SADEGHI, MD, MARK D. DELACURE, MD, GUY F. JUILLARD, MD, and MARILENE B. WANG, MD, Los Angeles, California, and New York, New York

cCRT (20) vs Surg and RT (44) [UW-QOL]

overall QoL score of both groups seems similar

cCRT: pain, swallowing

TL: speech, shoulder function





The effects of indwelling voice prosthesis on the quality of life, depressive symptoms, and self-esteem in patients with total laryngectomy

Beldan Polat • Kadir Serkan Orhan • Mustafa Caner Kesimli • Yasemin Gorgulu • Murat Ulusan • Kemal Deger

Before voice prosthesis		After voice prosthesis					
No depression	Mild depression	Moderate depression	Severe depression	No depression	Mild depression	Moderate depression	Severe depression
6	-	-	-	6	-	-	=
- 1	16	-		12	4	-	_
_	_	5	-	_	4	1	2
_	_	-	3	-	_	1	2

Indwelling voice prosthesis:

improve quality of life, self-esteem, and sexual function (p<0.05), symptoms of depression and anxiety were regressed (p<0.05).





Tumor site and disease stage as predictors of quality of life in head and neck cancer: a prospective study on patients treated with surgery or combined therapy with surgery and radiotherapy or radiochemotherapy

Dennis Veldhuis · Gunther Probst · Astrid Marek · Volker Noack · Ahmet Ural · Irenaeus Adamietz · Stefan Dazert · Amir Minovi

OF group 32, larynx group 35 EORTC QLQ-C30 and H&N35

QoL score of both groups 10 months after the end of the therapies is similar

OF group: fatigue and oral cavity pain

Larynx group: loss of sensual function and coughing



ORIGINAL ARTICLE

Quality of Life After Neck Dissection

Hiroyuki Inoue, MD; Ken-ichi Nibu, MD, PhD; Miki Saito, MD; Naoki Otsuki, MD; Haruhiko Ishida, MD; Tetsuro Onitsuka, MD; Takashi Fujii, MD; Kazuyoshi Kawabata, MD; Masahisa Saikawa, MD

Table 4. Impact of Preservation of Sternocleidomastoid Muscle (SCM) on Postoperative Quality of Life

	No. 0				
Question	0 (n = 15)	1 (n = 39)	(n = 20)	P Value	
Dressing	3.7	3.5	3.0	.046 (0-1 vs 2)	
Combing	3.8	3.7	3.1	.06 (0-1 vs 2)	
Facial swelling	4	4.1	4.0	.52	
Work	4.5	3.6	3.3	.006 (0 vs 1-2)	
Leisure	4.1	3.8	3.2	.11 (1 vs 2) .02 (0 vs 2)	

Table 5. Impact of Preservation of Spinal Accessory Nerve (SAN) on Postoperative Quality of Life

	No. 0				
Question	0 (n = 36)	1 (n = 27)	2 (n = 11)	P Value	
Dressing	3.7	3.2	3.2	.08 (0 vs 1-2)	
Combing	3.7	3.4	3.5	.30	
Facial swelling	4.0	4.2	3.7	.24	
Work	4.1	3.3	3.5	.02 (0 vs 1-2)	
Leisure	3.9	3.4	3.1	.04 (0 vs 1-2)	

Sacrifice of SCM and /or SAN: significant effect on daily activity, work and leisure





The effect of neck dissection on quality of life after chemoradiation

Comparing change in QOL scores between baseline and 1-year for patients treated with chemoradiation alone versus those requiring neck dissection.^a

Measure	Chemoradiation N=65	+ Neck dissection N=38	p-value
SF36			
Physical Functioning	-8.3	-8.2	.993
Role Physical	-10.9	-8.6	.829
Body Pain	8.0	-2.2	.041
General Health Perceptions	-0.4	1.6	.661
Vitality	1.8	1.2	.901
Social Functioning	2.5	8.2	.338
Role Emotional	6.3	7.9	.877
Mental Heath	6.2	7.8	.700
HNQOL			
Eating	-20.9	-24.8	.511
Communication	-5.2	-6.6	.834
Emotional Distress	11.0	11.1	.977
Pain	4.7	3.3	.801

Stage IV oropharyngeal cancer patients

After post-treatment ND decrement only in bodily pain domain score, but other QoL scores are similar to those of patients undergoing CT-RT alone





THE EFFECT ON QUALITY OF LIFE OF NECK DISSECTION AFTER CHEMORADIATION

Table 4b

Comparing change in QOL scores between baseline and 1-year for patients treated with modified radical neck dissection versus those treated with selective neck dissection.^a

Measure	Modified Radical Neck Dissection N=16	Selective Neck Dissection N=22	p-value
SF36			
Physical Functioning	-12.0	-5.5	.440
Role Physical	-3.1	-12.5	.620
Body Pain	-1.9	-2.4	.955
General Health Perceptions	-1.8	4.0	.461
Vitality	0.9	1.4	.952
Social Functioning	10.9	6.3	.632
Role Emotional	-2.1	15.1	.322
Mental Heath	-0.3	13.6	.029*
HNQOL			
Eating	-25.0	-24.6	.967
Communication	-8.6	-5.1	.778
Emotional Distress	8.9	12.7	.575





Perspectives

Patient Priorities

Pretreatment Patient Optimization

Customized Treatment

