# Incorporating the patient voice in sarcoma research:

How can we assess health-related quality of life in this heterogeneous patient groep?

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 Evaluation (new) treatments and care protocols traditionally focused on <u>objective outcomes</u> (e.g. disease-free and overall survival, response rate, adverse events) or centered around <u>provider's perspective</u> (e.g. number of complications)

 Assessment of <u>patient perspective</u> can provide important additional information to assess the benefits and risks of cancer treatments



Health care professionals and researchers increasingly be aware of how patient perspective may differ from theirs



# Patient-reported outcomes (PROs)

"Refer to a host of outcomes coming directly from patients about how they feel or function in relation to a health condition and its therapy without interpretation by healthcare professionals or anyone else" 1

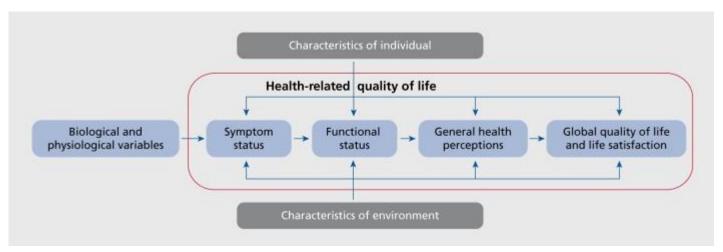
- Symptoms (e.g. pain, fatigue)
- Perception of daily functioning (e.g. physically, socially)
- Satisfaction with care
- Health-related quality of life

<sup>1</sup>U.S. Department of Health and Human Services, Food and Drug Administration. Guidance for industry: Patient-reported outcomes measures: Use in medical product development to support labeling claims.



# Health-related quality of life (HRQoL)

 A multidimensional concept that includes subjective reports of symptoms, side effects, functioning in multiple life domains, and general perceptions of life satisfaction and quality



 Or: The impact of disease and treatment on domains of physical, psychological, and social functioning

# Why is it important to measure PROs?



### Missing Patients' Symptoms in Cancer Care Delivery— The Importance of Patient-Reported Outcomes

Ethan Basch, MD

As cancer care professionals, we care deeply about our patients' symptoms. Indeed, symptom management is a cornerstone of oncology practice. Yet, many studies demonstrate that we consistently miss up to half of our patients' symptoms.

Several years ago, a methodologist colleague at Memorial Sloan Kettering demonstrated to me that I do no better detecting symptoms than any other oncologist, despite my



Related article page 445

belief that I am a relatively "patient-centered" clinician (he did this by analyzing

research data sets that include both clinician and patient symptom reports). The implications of our missing this information are profound: undermanagement of symptoms, unnecessary suffering, avoidable emergency department visits and hospitalizations, and treatment interruptions. <sup>1-3</sup> In clinical trials, this phenomenon can lead to underestimation of risk compared with benefit. <sup>4</sup>

practices to improve symptom detection and management without disrupting efficiency or workflow? Multiple webbased systems have been developed and successfully implemented at individual cancer centers and hospitals for patient self-reporting. <sup>15</sup> Some of the key logistical and technical considerations have been outlined by the International Society for Quality of Life Research. <sup>16</sup> Key considerations include:

- Thoughtful selection of which symptoms to assess based on the population of interest. The National Cancer Institute (NCI) has recommended "core" symptoms to assess across cancer populations.<sup>17</sup> Physical functioning should also be assessed.
- Identification of appropriate questionnaires. Good options for symptom assessment include the NCI's Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events (PRO-CTCAE), the MD Ander-

As cancer care professionals, we care deeply about our patients' symptoms. Indeed, symptom management is a cornerstone of oncology practice. Yet, many studies demonstrate that we consistently miss up to half of our patients' symptoms.

Several years ago, a methodologist colleague at Memorial Sloan Kettering demonstrated to me that I do no better detecting symptoms than any other oncologist, despite my belief that I am a relatively "patient-centered" clinician (he did this by analyzing research data sets that include both clinician and patient symptom reports).



### Undetected symptoms can lead to:

- Increased ED visits
- Increased hospital admissions
- Poorer patient satisfaction
- Poorer medication adherence
- Poorer HRQoL
- Poorer (objective) disease outcomes

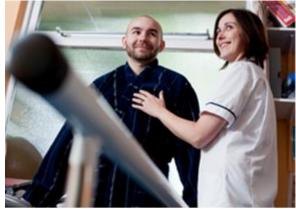


Pakhomov et al., Am. J. Man. Care, 2008; Basch, NEJM, 2017; Atkinson et al, Qual. Life Res., 2012; Laugsand et al., Health Qual Life Outcomes, 2010; Fromme et al., JCO, 2004



 The use of PROs in clinical practice improves patient-provider communication and can also improve problem detection, management, and outcomes<sup>1,2</sup>







 Several recent studies have even demonstrated improved survival with PRO monitoring<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Berry DL et al. Enhancing patient provider communication with the Electronic Self-Report Assessment for Cancer: a randomized trial. J Clin Oncol. 2011;29:1029-1035; <sup>2</sup> Basch E et al. Symptom monitoring with patient-reported outcomes during routine cancer treatment: a randomized controlled trial. J Clin Oncol. 2016;34:557-565.

### **Example Basch: PRO monitoring**

VOLUME 34 · NUMBER 6 · FEBRUARY 20, 2016

JOURNAL OF CLINICAL ONCOLOGY

ORIGINAL REPORT

### Symptom Monitoring With Patient-Reported Outcomes During Routine Cancer Treatment: A Randomized Controlled Trial

Ethan Basch, Allison M. Deal, Mark G. Kris, Howard I. Scher, Clifford A. Hudis, Paul Sabbatini, Lauren Rogak, Antonia V. Bennett, Amylou C. Dueck, Thomas M. Atkinson, Joanne F. Chou, Dorothy Dulko, Laura Sit, Allison Barz, Paul Novotny, Michael Fruscione, Jeff A. Sloan, and Deborah Schrag

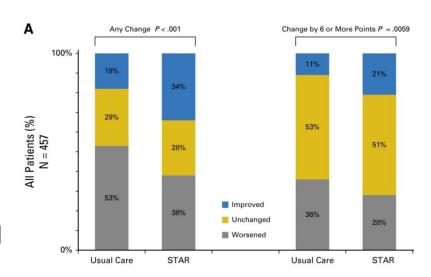
See accompanying editorial on page 527

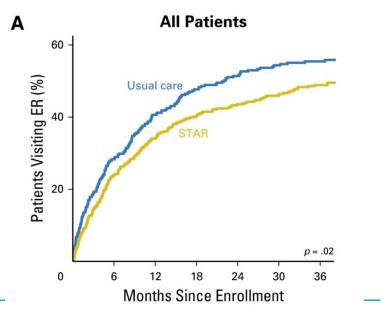
- 766 patients with advanced solid cancer starting chemo
- Randomised to weekly online report of symptoms (n=441) or standard care (n=325)
- Nurse practitioners receive alerts when severe or worsening symptoms



Assessed at 6 months, compared to baseline, pts in intervention group:

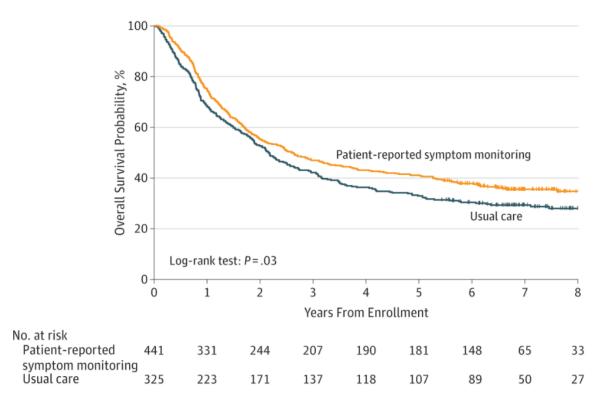
- HRQoL improved more and worsened among fewer (34 vs. 41%)
- Less frequently admitted to ER or hospitalized (45 vs. 49%)
- Remained on chemo longer
   (8.2 v. 6.3 months)





Basch et al. JCO 2016

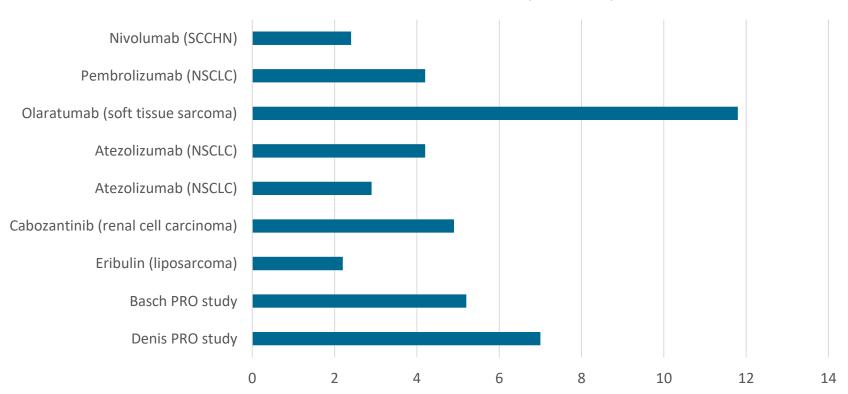




- Median OS for patients in the self-reporting arm was 31.2 months vs 26.0 months in the standard care cohort, which equated to an almost 20% increase in survival time for these patients.
- Remained significant in multivariable analysis (Adjusted HR=0.832)

### **2016 FDA Approvals for metastatic tumors**

### Difference in overall survival (months)



Adapted from: https://www.fda.gov/drugs/informationondrugs/approveddrugs



### **Net clinical benefit**

 Many sarcoma patients experience a substantial treatment burden of physical and psychosocial symptoms, with an adverse impact on HRQoL.



 Integration of HRQoL with traditional measures of therapeutic response will provide a more comprehensive assessment of efficacy and toxicity of (novel) therapies for sarcoma patients.



# Do we assess HRQoL?



# JCO special series



## Novel Therapeutic and Diagnostic Advances in Bone and Soft Tissue Sarcomas

Published online December 8, 2017

#### Sarcoma: The Merging of Science and Clinical Care Schwartz et al

Sarcomas are cancers of connective tissues. There will be approximately 15,000 new cases of sarcoma diagnosed in the United States this year, collectively making them a rare form of cancer. The situation is made more complex in that sarcoma is not one diagnosis, any more than lung cancer is. Rather, sarcomas comprise at least 50 different histologic subtypes, each characterized by a unique biology, pathology, and genetics, with the extra complexity of anatomic locations from head to toes. As a result, sarcomas represent a complex family of cancers.

Read more »

#### In this issue

- Contemporary Sarcoma Diagnosis, Genetics, and Genomics Schaefer et al
- Local Control of Soft Tissue and Bone Sarcomas Crompton et al
- Perioperative Management of Extremity Soft Tissue Sarcomas Haas et al
- Emerging Targeted and Immune-Based Therapies in Sarcoma Pollack et al
- Gastrointestinal Stromal Tumors von Mehren et al
- Soft Tissue and Uterine Leiomyosarcoma George et al
- Clinical and Molecular Spectrum of Liposarcoma Lee et al
- Biology and Management of Undifferentiated Pleomorphic Sarcoma, Myxofibrosarcoma, and Malignant Peripheral Nerve Sheath Tumors:
   State of the Art and Perspectives Widemann et al
- Rhabdomyosarcoma, Ewing Sarcoma, and Other Round Cell Sarcomas Pappo et al
- Synovial Sarcoma: Current Concepts and Future Perspectives Stacchiotti et al
- · Osteosarcoma, Chondrosarcoma, and Chordoma Whelan et al
- Pathologic Angiogenesis of Malignant Vascular Sarcomas: Implications for Treatment Khan et al
- Locally Aggressive Connective Tissue Tumors Gounder et al
- Carcinosarcomas and Related Cancers: Tumors Caught in the Act of Epithelial-Mesenchymal Transition Pang et al

### HRQoL data of sarcoma patients are sparse, but suggest that patients suffer from poorer HRQoL

Eur J Cancer Care (Engl). 2017 Jul;26(4). doi: 10.1111/ecc.12603. Epub 2016 Nov 7.

### Quality of life after bone sarcoma surgery around the knee: A long-term follow-up study.

Bekkering WP<sup>1,2</sup>, van Egmond-van Dam JC<sup>1</sup>, Bramer JAM<sup>2</sup>, Beishuizen A<sup>3</sup>, Fiocco M<sup>4</sup>, Dijkstra PDS<sup>1</sup>.

Sarcoma. 2017;2017:2372135. doi: 10.1155/2017/2372135. Epub 2017 Apr 23.

### Evaluation of Quality of Life at Progression in Patients with Soft Tissue Sarcoma.

It re Hudgens S1, Forsythe A2, Kontoudis I3, D'Adamo D2, Bird A4, Gelderblom H5.

★ J Surg Oncol. 2016 Dec;114(7):821-827. doi: 10.1002/jso.24424. Epub 2016 Sep 16. wer

### for, Ab Health-related quality of life following treatment for extremity soft tissue sarcoma.

Fro Intr Davidson D1, Barr RD2, Riad S3, Griffin AM3, Chung PW4, Catton CN4, O'Sullivan B4, Ferguson PC3,5,6, Davis AM7, Wunder JS3,5,6.

Author information abla Sur

sub (HF Abstract

afte cor BACKGROUND AND OBJECTIVES: The primary objective of this study was to estimate the change in health-related quality of life (HRQL) 1 cos bas year following treatment for extremity soft tissue sarcoma (STS), measured by the EQ-5D. Secondary objectives included determining clinical variables associated with HRQL at 1 year, estimating the proportion with a clinically important difference (CID) in HRQL, and evaluating (p: variability within EQ-5D domains. hac

METHODS: Patients over the age of 16 years, treated for a localized extremity STS, were included. The EQ-5D change score from pretreatment to 1-year follow-up was determined. The association of clinical variables with EQ-5D scores was estimated using a linear regression model. The proportion of patients with a CID in HRQL score was determined. A vector analysis of the EQ-5D domains was undertaken.

RESULTS: The mean EQ-5D change score was 0.02. Age, sex, disease status, and initial EQ-5D score were associated with EQ-5D score at 1 year. There was a CID improvement in 32% and a deterioration in 24%. The anxiety and depression domain demonstrated the most change between baseline and 1 year after treatment.

CONCLUSION: Most patients maintain a high level of HRQL following treatment for extremity STS. J. Surg. Oncol. 2016;114:821-827. © 2016

# **PALETTE study**

Original Article

Health-Related Quality-of-Life Results From PALETTE: A
Randomized, Double-Blind, Phase 3 Trial of Pazopanib Versus
Placebo in Patients With Soft Tissue Sarcoma Whose Disease
Has Progressed During or After Prior Chemotherapy—A
European Organization for Research and Treatment of Cancer
Soft Tissue and Bone Sarcoma Group Global Network Study
(EORTC 62072)

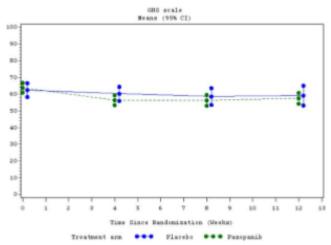
Corneel Coens, MSc<sup>1</sup>; Winette T. A. van der Graaf, MD PhD<sup>2</sup>; Jean-Yves Blay, MD PhD<sup>5</sup>; Sant P. Chawla, MD<sup>6</sup>; Ian Judson, MD<sup>6</sup>; Roberta Sanfilippo, MD<sup>6</sup>; Stephanie C. Manson, DPhil<sup>7</sup>; Rachel A. Hodge, MSc<sup>7</sup>; Sandrine Marreaud, MD<sup>8</sup>; Judith B. Prins, MD, PhD<sup>9</sup>; Iwona Lugowska, MD PhD<sup>10,1</sup>; Saskia Litière, PhD<sup>1</sup>; and Andrew Bottomley, PhD<sup>1</sup>

BACKGROUND: Health-related quality of life (HRQoL) was an exploratory endpoint in the PALETTE trial, a global, double-blind. randomized, phase 3 trial of pazopanib 800 mg versus placebo as second-line or later treatment for patients with advanced soft tissue sarcoma (N = 369). In that trial, progression-free survival was significantly improved in the pazopanib arm (median, 4.6 vs.16 months; hazard ratio, 0.31; P<.001), and toxicity of pazopanib consisted mainly of fatigue, diarrhea, nausea, weight loss, and hypertension. METHODS: HRQoL was assessed using the 30-item core European Organization for the Research and Treatment of Cancer (EORTC) Quality-of-Life Questionnaire (EORTC QLQ-C30) at baseline and at weeks 4, 8, and 12 in patients who received treatment on protocol. The primary HRQoL endpoint was the EORTC QLQ-C30 global health status scale. RESULTS: Compliance with HRQoL assessments was good, ranging from 94% at baseline to 81% at week 12. Differences in scores on the EORTC QLQ-C30 global health status subscale between the 2 treatment arms were not statistically significant and did not exceed the predetermined, minimal clinically important difference of 10 points (P-.291; maximum difference, 3.8 points). Among the other subscales, the pazopanib arm reported significantly worse symptom scores for diarrhea (P<.001) loss of appetite (P<.001), nausea/vomiting (P<.001), and fatigue (P=.012). In general, HRQoL scores tended to decline over time in both arms, CONCLUSIONS: HRQoL did not improve with the receipt of pazopanib. However, the observed improvement in progression-free survival without impairment of HRQoL was considered a meaningful result. The toxicity profile of pazopanib was reflected in the patients' self-reported symptoms but did not translate into significantly worse overall global health status during treatment. Cancer 2015;121:2933-41. © 2015 American Cancer Society. KEYWORDS: advanced, pazopanib, quality of life, randomized clinical trial, soft tissue sarcoma.

 The PALETTE study of pazopanib versus placebo, as 2nd-line or greater treatment for advanced STS, is one of the few clinical trials which reported HRQoL as exploratory endpoint.



Pazopanib improved progression-free survival without relevant deterioration in **global quality of life** compared with placebo.



**Figure 1.** Mean global health status (GHS) scores and corresponding 95% confidence intervals (CIs) were estimated using the model. In both treatment arms, the GHS scores tended to decline over time.

 This demonstrates that combining HRQoL data with clinical data can show overall clinical treatment benefit.

### But....

TABLE 3. Summary of the Health-Related Quality-of-Life Results

			QLQ-	C30 Scales			
	Primary Scale of Interest		Se	condary Scales of	Interest		Sensitivity Analysis
	GHS	Diarrhea	Loss of Appetite	Nausea/Vomiting	Fatigue	Role Functioning	Imputed GHS
			P-value for	test of overall diffe	rence		
	.291	< .001	< .001	< .001	0.012	0.039	0.272
			Difference between	en treatment arms	(95% CI) <sup>a</sup>		
Baseline Wk 4 Wk 8 Wk 12	1.4 (-3.7, 6.4) -3.8 (-9.0, 1.3) -2.3 (-8.3, 3.7) -1.6 (-8.4, 5.1)	1.9 (-2.1, 5.8) 19.0 (12.4-25.6) 26.4 (18.3-34.6) 20.9 (10.4-31.5)	0.1 (-6.1, 6.3) 15.3 (7.9-22.6) 17.1 (7.9-26.3) 13.2 (3.3-23.2)	-0.2 (-3.2, 2.8) 8.3 (3.8-12.8) 11.0 (5.1-16.8) 12.3 (5.8-18.9)	-1.0 (-6.6, 4.7) 10.1 (3.9-16.2) 7.6 (1.0-14.3) 4.5 (-3.3, 12.4)	1.4 (-5.7, 8.5) -9.5 (-17.1, -1.9) -8.1 (-16.8, 0.6) -4.9 (-14.5, 4.6)	1.7 (-3.0, 6.3) -2.9 (-7.6, 1.8) -3.2 (-8.3, 1.9) -0.7 (-6.3, 4.9)

Abbreviations: GHS, general health status; QLQ-C30, the European Organization for Research and Treatment of Cancer Quality of Life Questionnaire core 30.

<sup>a</sup> Estimates for the differences between treatment arms were calculated using linear mixed modelling and are expressed in absolute score points on the scale. For the GHS and role functioning scales, positive numbers indicate a higher value (better quality of life) for pazopanib compared with placebo. For the symptom scales (diarrhea, loss of appetite loss, nausea/vomiting, and fatigue), positive numbers indicate a higher level of symptoms (worse quality of life) for pazopanib compared with placebo.

There were both statistically and clinically significant differences in scores between the 2 arms for <u>diarrhea</u>, <u>loss of appetite</u>, <u>nausea/vomiting</u>, <u>fatigue</u> and <u>role functioning</u> in favor of placebo group



# Are all aspects of HRQoL assessed?

- Several side-effects or symptoms common to angiogenesis inhibitors were not assessed as they are not part of the cancer-generic HRQoL questionnaire.
- Most notably absent are symptoms related to <u>hand-foot syndrome</u> or <u>skin</u> reactions.
- These symptoms represent a severe limitation to the patient when performing normal daily activities. Dermatologic problems may be considered more important by patients because of their chronicity, obvious appearance, and social impact, thus affecting daily activities more than might be apparent from a clinical perspective.
- Disease- and treatment-specific symptoms most of the times strongest predictors of overall HRQoL

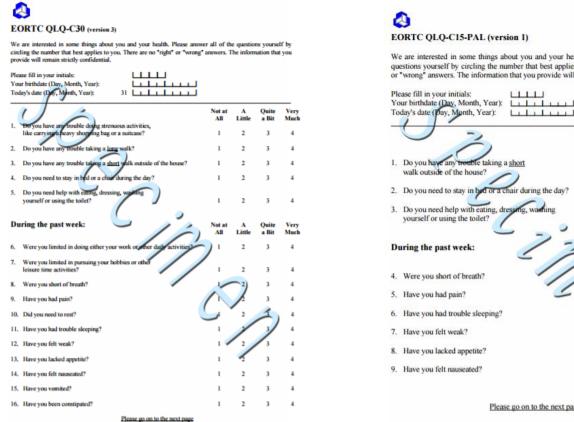


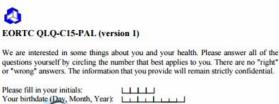
## **How to assess HRQoL?**

- One of the biggest challenges in sarcoma is how to assess HRQoL in this heterogeneous patient group.
- Previous studies all used generic HRQoL instruments (e.g. EORTC QLQ-C30;
   SF36, FACT-G).



# Static: EORTC QLQ-C30 & C15-PAL





walk outside of the house?	1	2	3	4
2. Do you need to stay in had or a chair during the day?	1	2	3	4
Do you need help with eating, dressing, washing yourself or using the toilet?	1	2	3	4
During the past week:	Not at	A Little	Quite a Bit	Very
4. Were you short of breath?	/	2	3	4
5. Have you had pain?	1	2	- }	4
6. Have you had trouble sleeping?	1/	2	3_	4
7. Have you felt weak?	1	2	3	-4
8. Have you lacked appetite?	1	3	1	4
9. Have you felt nauseated?	1	2	3	4

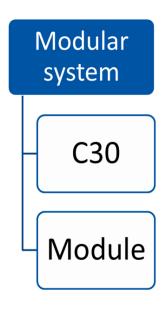
Not at A Quite Very All Little a Bit Much

Please go on to the next page



 These generic tools do not efficiently capture the unique experiences of sarcoma patients and thus lack content validity

Traditionally inadequate content coverage has been addressed using a
 <u>tumor-, treatment-</u>, or <u>domain-specific</u> module that captures all specific
 HRQoL issues, in conjunction with generic HRQoL measures.





Val	idated Modules
QLQ-BIL21	CHOLANGIOCARCINOMA AND GALLBLADDER CANCER
QLQ-BM22	BONE METASTASES
QLQ-BN20	BRAIN
QLQ-BR23	BREAST
QLQ-CR29	COLORECTAL
QLQ-CX24	CERVICAL
QLQ-ELD14	ELDERLY CANCER PATIENTS
QLQ-EN24	ENDOMETRIAL
QLQ-FA12	CANCER-RELATED FATIGUE
QLQ-GI.NET21	NEUROENDOCRINE CARCINOID
QLQ-HCC18	HEPATOCELLULAR CARCINOMA
QLQ-H&N35	HEAD & NECK
QLQ-INFO25	INFORMATION
QLQ-LC13	LUNG
QLQ-LMC21	COLORECTAL LIVER METASTASES
QLQ-MY20	
QLQ-OES18	OESOPHAGEAL
QLQ-OG25	OESOPHAGO-GASTRIC
QLQ-OH15	ORAL HEALTH
QLQ-OV28	OVARIAN
QLQ-PR25	PROSTATE
QLQ-STO22	GASTRIC

Modules in Phase IV			
QLQ-BrR24	BREAST RECONSTRUCTION		
QLQ-CAX24	CANCER CACHEXIA AND NUTRITIONAL STATUS		
QLQ-CIPN20			
QLQ-CML24	CHRONIC MYELOID LEUKAEMIA		
QLQ-H&N43			
QLQ-LC29			
QLQ-PRT23	RADIATION PROCTITIS		
QLQ-SHQ22	SEXUAL HEALTH		
QLQ-SWB32	SPIRITUAL WELLBEING		
QLQ-TC26	TESTICULAR CANCER		

Modules Phase III Completed		
QLQ-ANL27	ANAL CANCER	
QLQ-BLM30	MUSCLE INVASIVE BLADDER CANCER	
QLQ-CLL17	CHRONIC LYMPHOCYTIC LEUKAEMIA - REPLACING QLQ-CLL16	
QLQ-CLL16	CHRONIC LYMPHOCYTIC LEUKAEMIA – BEING REPLACED BY QLQ-CLL17	
QLQ-COMU26	COMMUNICATION	
QLQ-HDC29	HIGH-DOSE CHEMOTHERAPY	
QLQ-HL27	HODGKIN LYMPHOMA	
QLQ-MEL38		
QLQ-NHL-HG29	HIGH-GRADE NON-HODGKIN LYMPHOMA	
QLQ-NHL-LG20	LOW-GRADE NON-HODGKIN LYMPHOMA	
QLQ-NMIBC24	NON-MUSCLE INVASIVE BLADDER CANCER	
QLQ-OPT30	OPHTHALMIC CANCER	
QLQ-PAN26	PANCREATIC CANCER	

# Modules in Phase III Nasopharyngeal Carcinoma Outpatient Satisfaction Satisfaction with Cancer Care Core Symptom-Based Questionnaires Thyroid Cancer Vulva Cancer

- Modules in Phase I–II

  Adolescents and Young Adults

  Breast Cancer (update of BR23)

  Hereditary Cancer Predisposition
  Syndrome

  IADL in Brain Tumor Patients

  Pancreatic Neuroendocrine Tumor

  Spinal Cord Compression

  Survivorship
- -Tumor-specific modules (e.g. breast cancer)
- -Domain-specific questionnaires (e.g. fatigue)
- -Treatmentspecific (e.g. symptoms of new targeted agents)

Radboudumc

### Module development process – co-creation with patients

### Phase 1: Generation of HRQoL issues

Compiling an exhaustive list of relevant HRQoL issues based on three sources: literature, patients and health care professionals

### Phase 2: Construction of the item list

Issues is converted into questions with the format and time frame compatible with the EORTC QLQ-C30

### Phase 3: Pre-testing

Identify and solve potential problems in its administration (e.g., the phrasing of questions, the sequence of questions) and identify missing or redundant issues.

### Phase 4: Field-testing

Determine its acceptability, reliability, validity, responsiveness and cross-cultural applicability



# Sarcoma-specific HRQoL?

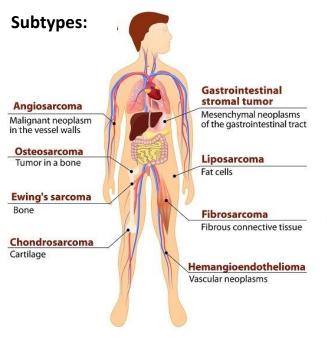
- Sarcoma-specific module is needed to detect, with more sensitivity, HRQoL issues particularly relevant to sarcoma patients
- However, given the heterogeneity of the disease in terms of subtype, presentation, age and treatment, the development of such an instrument may be challenging



A patient with Ewing sarcoma faces different challenges compared with a patient with undifferentiated pleomorphic sarcoma



**Sarcoma - Heterogeneity** 



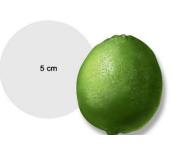
4 cm





### **Localizations:**

- -Upper and lower extremities
- -Head and neck
- -Thorax
- -Retroperitoneal / intra-abdominal
- -Gynaecological

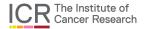












# **New strategy**

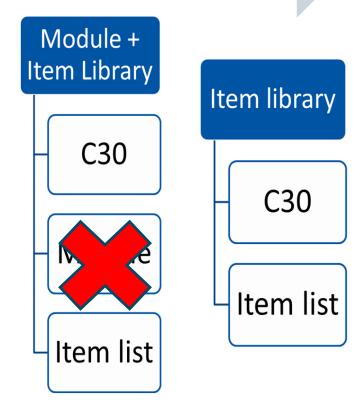
- Given the rapid evolution of treatment options, a module may not be the best option to meet the needs of academia and industry to assess the impact of new treatments
- Standardized or so-called <u>"static"</u> questionnaires consisting of a fixed set of items may miss important adverse events.
- The EORTC QLG therefore recently recommended the use of a combination of standardized HRQoL questionnaires and validated items from item libraries: <u>static plus flexible/dynamic approach</u>
- This would ensure adequate assessment of not only adverse events of new treatments, but also their impact on common functional health problems reported by patients



Research questions / clinical trial needs

Existing module – missing items?

Item list to complement the module





# **Item Library**



Create a new questionnaire

demo ▼

### 64 questionnaires, 902 questions

Q search the item library
---------------------------

Include custom questionnaires from the community

### Official questionnaires

Custom questionnaires

## A



# Welcome to the Item Library!

The **Core questionnaire** QLQ-C30 has been developed to assess the quality of life of cancer patients.

# **EORTC QLG project starting soon**

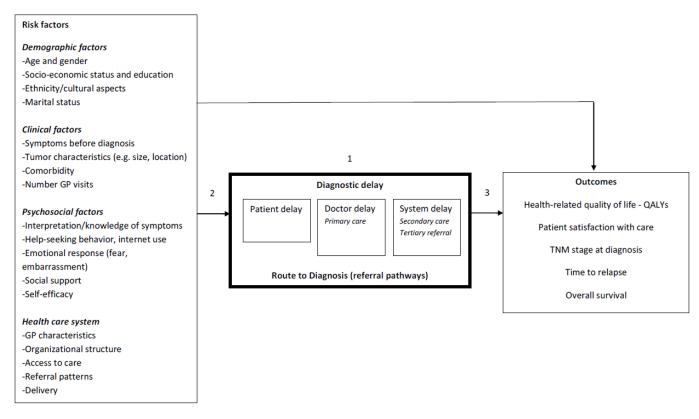
Is it possible to develop one module covering all sarcoma issues, or are the HRQoL issues surrounding the different subtypes/treatments sufficiently different to warrant the development of separate modules and/or item lists (with items selected from the EORTC item library)?



## Other sarcoma PRO studies



# Diagnostic pathway and Quality of life in sarcoma patients: QUOTE study



Phd-student: Vicky Soomers



# Health-related quality Of Life In patients with advanced Soft TIssue sarcomas treated with Chemotherapy: HOLISTIC study

- Decision making often challenging due to low response rates and marginal survival benefit.
- Analysis of HRQoL trajectories in advanced STS patients treated with chemotherapy
- HRQoL data will provide additional information on the impact chemotherapy and thus aid collaborative decision making.

PhD-student: Eugenie Younger



# (Long-term) survivorship issues

Diagnosed between 2008-2016 and still alive in 2018:



- Prevalence of physical and psychosocial problems
- Who is at risk for poor outcomes?
- Why that person?

PhD-student: Vicky Soomers

# Living with desmoid-type fibromatosis

Title Identification of health related quality of life issues and measures to assess these in patients

with sporadic desmoïd-type fibromatosis: a literature review and focus group study.

Running title Health related quality of life in patients with desmoid-type fibromatosis

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Desmoid fibromatosis through the patients' eyes: Time to change the focus and <u>organisation</u> of care?

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# Living with Epithelioid Hemangioendothelioma (EHE): Facebook study



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# Questions or ideas?

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