

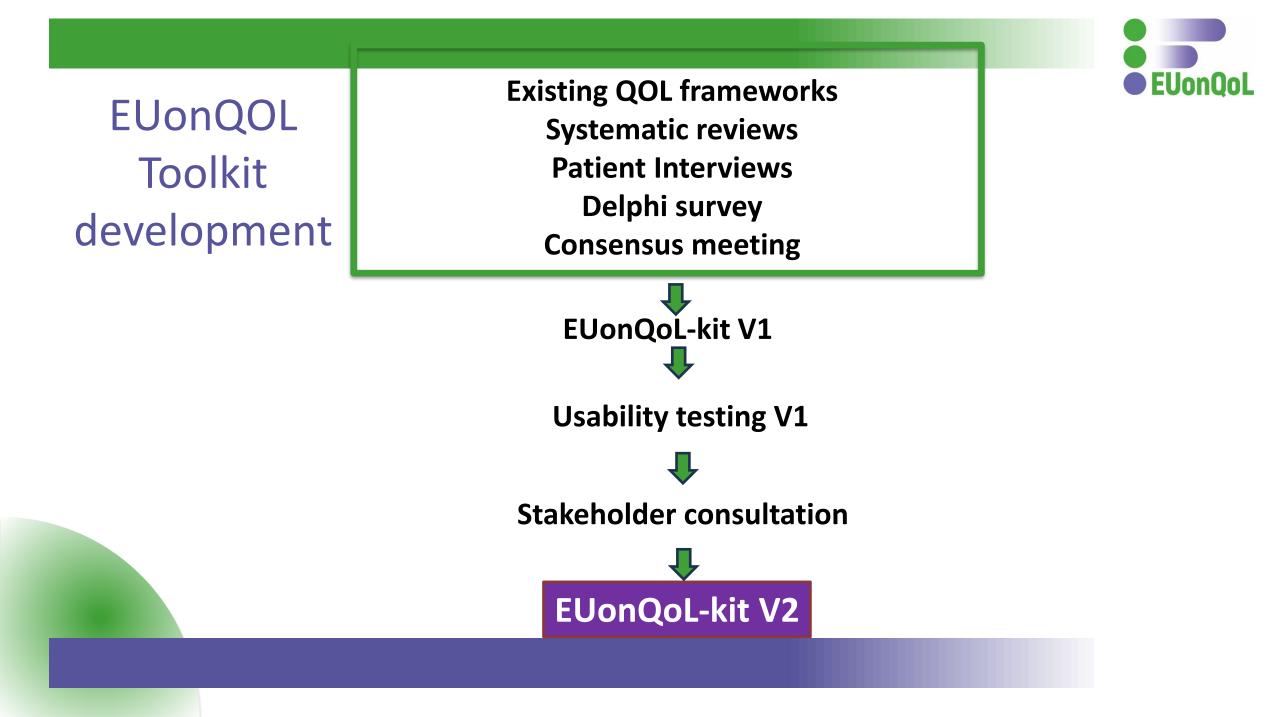
The EUonQoL-kit

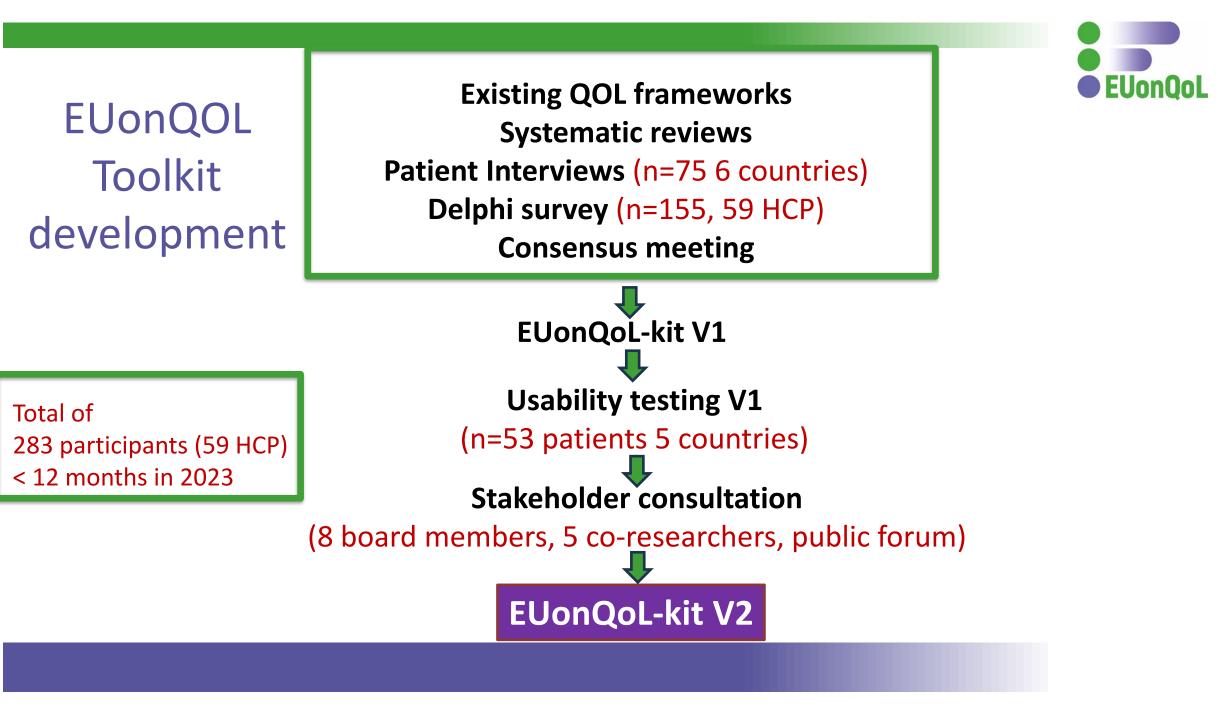
Dr. Nanne Bos (Nivel) on behalf of the research team of Istituto Nazionale dei Tumori Milano

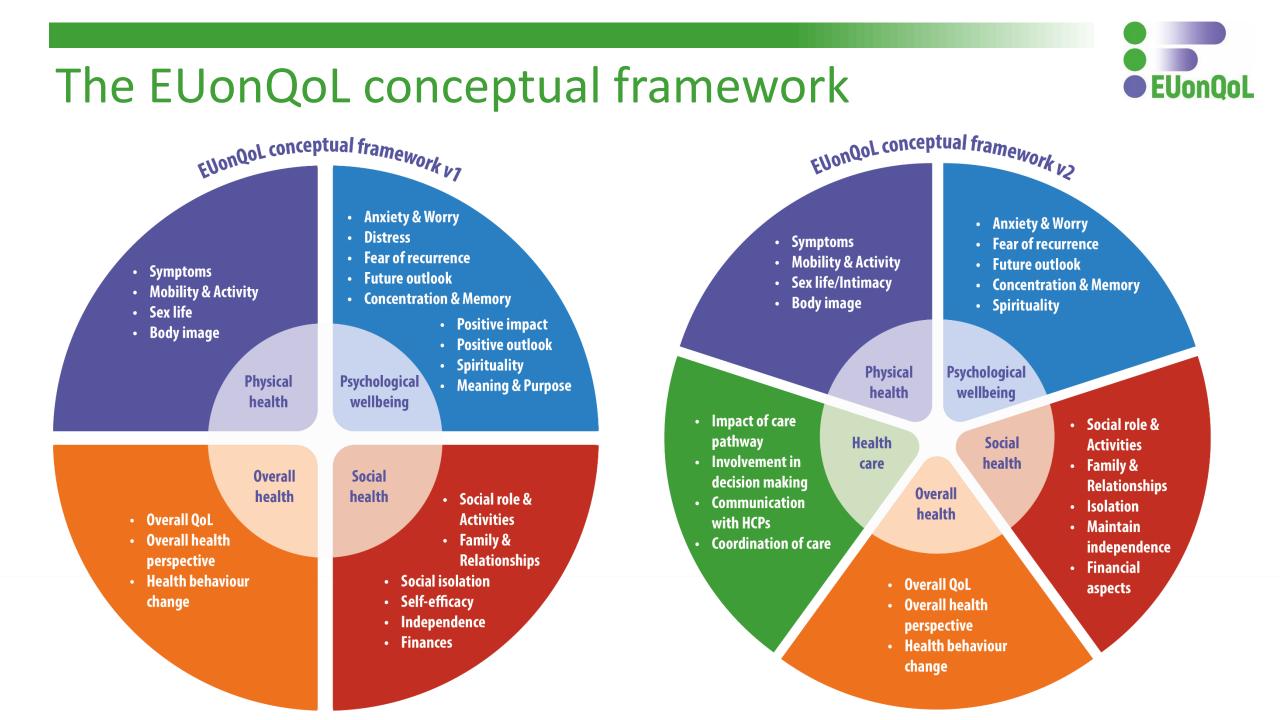
EUon

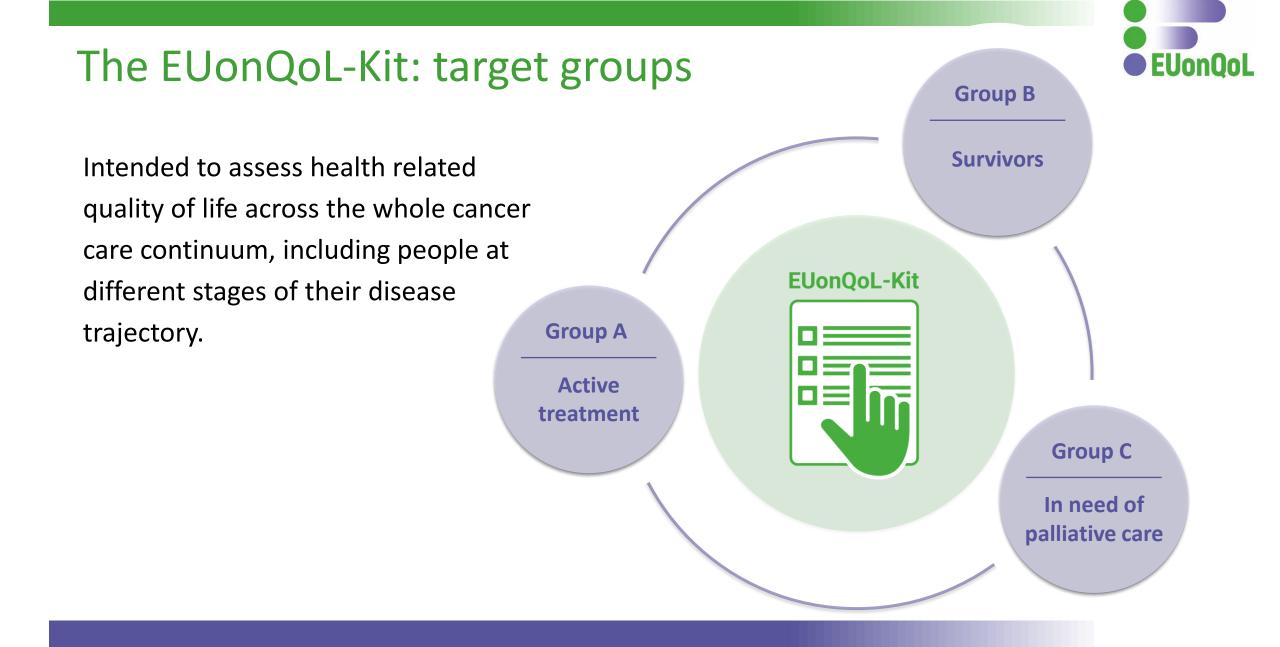
Talk overview

- Brief description of the EUonQoL-kit development process
- Presentation of the EUonQoL conceptual framework
- Why is the EUonQoL-kit a «kit»
- EUonQoL-kit subdomains and items
- EUonQoL-kit cultural adaptation









The EUonQoL-Kit: administration modes



EUonQoL-Kit

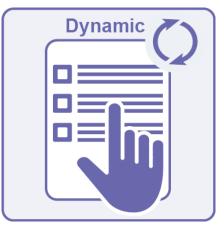


Administered in both static and dynamic modes.



Classical testing

Fixed set of pre-selected questions presented to every respondent



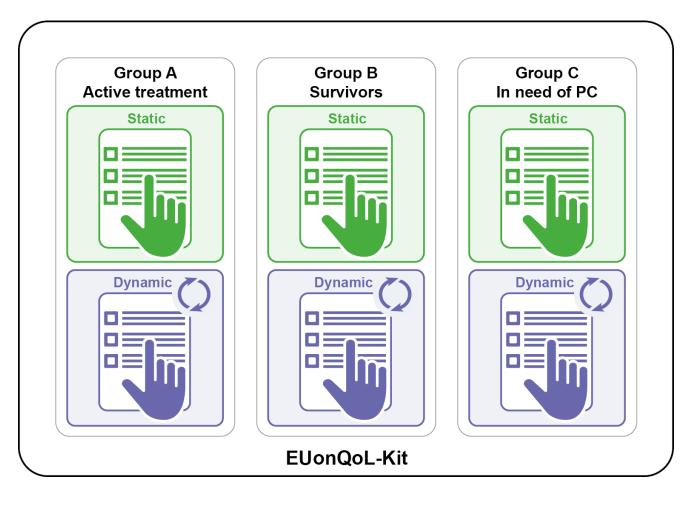
Computer Adaptive Testing (CAT)

Questions automatically selected based on the respondent's answers during questionnaire completion

Why the EUonQoL-Kit is a «kit»







The EUonQoL-Kit: items by sub-domain

Static	Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-domain	Group A Active treatment	Group B Survivors	Group C In need of PC
	3	3	2	Physical Functioning (PF)	7	7	7
	2	2	2	Role Functioning (RF)	6	6	6
	2	2	2	Pain (PA)	6	6	6
	2	2	2	Fatigue (FA)	6	6	6
	1	1	1	Sleeping Problems (SL)	6	6	6
	3	3	3	Emotional Functioning (EF)	7	7	7
	3	3	3	Social Functioning (SF)	6	6	6
	2	2	1	Financial difficulties (FI)	6	6	6
	18	18	16		50	50	50
	6	6	6	Other physical symptoms	6	6	6
	15	16	11	Other mixed items	15	16	11
	7	6	7	Patient experiences	7	6	7
	3	3	3	Overall health/QoL + WISP	3	3	3
	1	1	1	General QoL open-ended q.	1	1	1
	50	50	44	Total number of items	82	82	78



EUonQoL





Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

uring the past week, di epressed?	d you feel
Not at all	
A little	
Quite a bit	
Very much	

Crosse D. Crosse C





Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

EUonQoL	
During the past week, were you limite in doing either your work or other dail activities?	
Not at all	
A little	
Quite a bit	
Very much	
	>





Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

EUonQoL Do you have any trouble do activities, like carrying a he	
bag or a suitcase?	
Not at all	
A little	
Quite a bit	
Very much	
<	>

Group C

Group B

Group A





Active treatment	Survivors	In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

EUonQoL	an dragging
Do you need help with eatin washing yourself or using t	
Not at all	
A little	
Quite a bit	
Very much	
<u> </u>	~



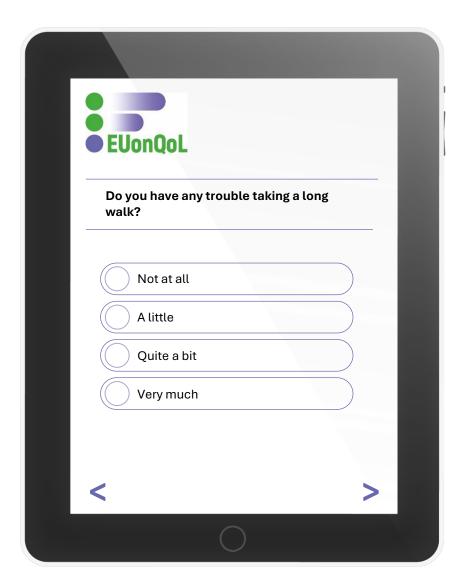


QoL sub-	Group C In need of PC	Group B Survivors	Group A Active treatment
Physical Funct	2	3	3
Role Functioni	2	2	2
Pain (PA)	2	2	2
Fatigue (FA)	2	2	2
Sleeping Probl	1	1	1
Emotional Fun	3	3	3
Social Function	3	3	3
Financial diffic	1	2	2
	16	18	18

Other p	6	6	6
Other r	11	16	15
Patient	7	6	7
Overal	3	3	3
Genera	1	1	1
) Total n	44	50	50

QoL sub-domain
Physical Functioning (PF)
Role Functioning (RF)
Pain (PA)
Fatigue (FA)
Sleeping Problems (SL)
Emotional Functioning (EF)
Social Functioning (SF)
Financial difficulties (FI)

Other physical symptoms
Other mixed items
Patient experiences
Overall health/QoL + WISP
General QoL open-ended q.
Total number of items



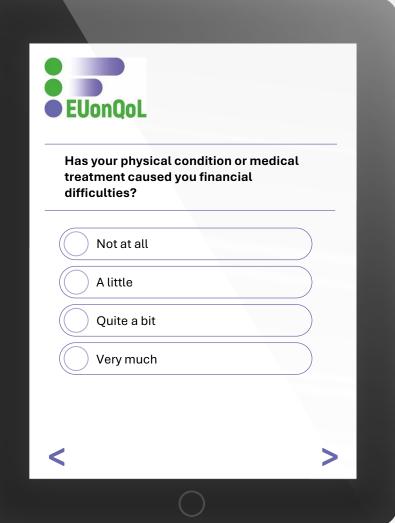




Group A Active treatment	Group B Survivors	Group C In need of PC	QoL
3	3	2	Physical
2	2	2	Role Fur
2	2	2	Pain (PA
2	2	2	Fatigue
1	1	1	Sleeping
3	3	3	Emotion
3	3	3	Social Fu
2	2	1	Financia
18	18	16	

50	50	44	Total nu
1	1	1	General
3	3	3	Overall
7	6	7	Patient
15	16	11	Other m
6	6	6	Other p

oL sub-domain
al Functioning (PF)
unctioning (RF)
PA)
e (FA)
ng Problems (SL)
onal Functioning (EF)
Functioning (SF)
ial difficulties (FI)
physical symptoms
mixed items
t experiences
l health/QoL + WISP
al QoL open-ended q.
umber of items





Crown A

Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

Other	6	6	6
Other	11	16	15
Patien	7	6	7
Overa	3	3	3
Gener	1	1	1
Total r	44	50	50

Other physical symptoms
Other mixed items
Patient experiences
Overall health/QoL + WISP
General QoL open-ended q.
Total number of items

Single items:

- Appetite
- Nausea/Vomiting
- Constipation
- Diarrhoea
- Dyspnoea
- Cognitive functioning



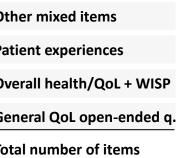




Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-d
3	3	2	Physical Function
2	2	2	Role Functionir
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Proble
3	3	3	Emotional Fund
3	3	3	Social Function
2	2	1	Financial difficu
18	18	16	

6	6	6	Oth
15	16	11	Oth
7	6	7	Pati
3	3	3	Ove
1	1	1	Gen
50	50	44	Tota

QoL sub-domain
Physical Functioning (PF)
Role Functioning (RF)
Pain (PA)
Fatigue (FA)
Sleeping Problems (SL)
Emotional Functioning (EF)
Social Functioning (SF)
Financial difficulties (FI)
Other physical symptoms
Other mixed items
Patient experiences
Overall health/QoL + WISP





Group P

Group C



Group A

Active treatment	Survivors	In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

•	Fear of	recurrence

- Future outlook
- Spirituality
- Concentration
- Body image
- Sex life/intimacy
- Independence
- Health behaviour change
- Isolation
- Symptom worries
- Financial aspects
- Family & relationships



Group B

Group A

Group C

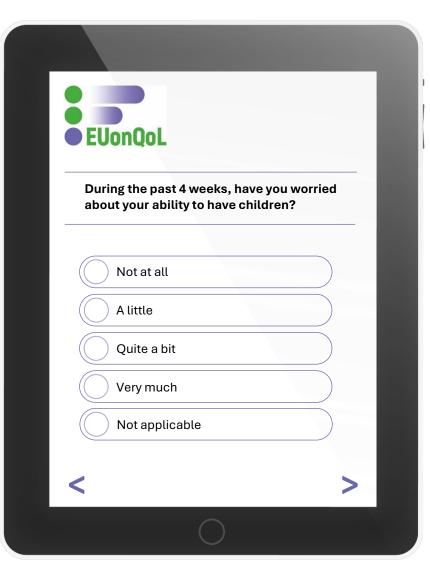




QoL s	In need of PC	Survivors	Active treatment
Physical F	2	3	3
Role Func	2	2	2
Pain (PA)	2	2	2
Fatigue (F	2	2	2
Sleeping F	1	1	1
Emotiona	3	3	3
Social Fun	3	3	3
Financial	1	2	2
J	16	18	18

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

QoL sub-domain
Physical Functioning (PF)
Role Functioning (RF)
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Fatigue (FA)
Sleeping Problems (SL)
Emotional Functioning (EF)
Social Functioning (SF)
Financial difficulties (FI)
Other physical symptoms
Other mixed items
Patient experiences







Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub
3	3	2	Physical Func
2	2	2	Role Functior
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Prob
3	3	3	Emotional Fu
3	3	3	Social Function
2	2	1	Financial diff
18	18	16	

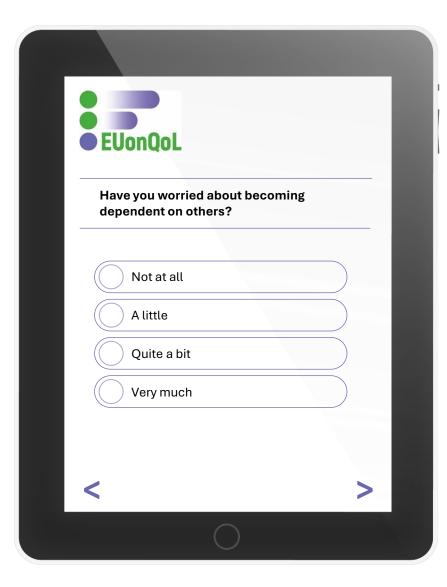
50	50	44	To
1	1	1	Ge
3	3	3	Ov
7	6	7	Pa
15	16	11	Ot
6	6	6	Ot

QoL sub-domain
Physical Functioning (PF)
Role Functioning (RF)
Pain (PA)
Fatigue (FA)
Sleeping Problems (SL)
Emotional Functioning (EF)
Social Functioning (SF)
Financial difficulties (FI)
Other physical symptoms
Other mixed items

atient experiences verall health/QoL + WISP

eneral QoL open-ended q.

otal number of items







Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
15	16	11	Other mixed items
7	6	7	Patient experiences
3	3	3	Overall health/QoL + WISP
1	1	1	General QoL open-ended q.
50	50	44	Total number of items

EUonQoL	
Since the diagnosis and treatme ancer: Have you received supp our employer e.g. arranging fle vorking?	ort from
Not at all	
A little	
Quite a bit	
Very much	





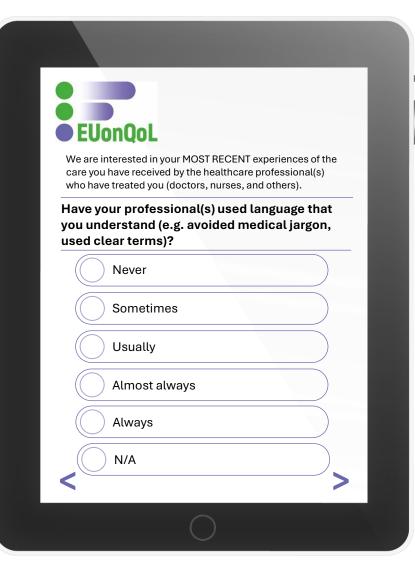
QoL sub-o	Group C In need of PC	Group B Survivors	Group A Active treatment
Physical Functi	2	3	3
Role Functioni	2	2	2
Pain (PA)	2	2	2
Fatigue (FA)	2	2	2
Sleeping Proble	1	1	1
Emotional Fun	3	3	3
Social Function	3	3	3
Financial diffic	1	2	2
	16	18	18

6 6 6 Ot 15 16 11 Ot 7 6 7 Par 3 3 3 Ov 1 1 1 Ge
15 16 11 Ot 7 6 7 Par
15 16 11 Ot
6 6 6 Ot

QoL sub-domain
Physical Functioning (PF)
Role Functioning (RF)
Pain (PA)
Fatigue (FA)
Sleeping Problems (SL)
Emotional Functioning (EF)
Social Functioning (SF)
Financial difficulties (FI)
Other physical symptoms
Other mixed items
Patient experiences
Overall health/QoL + WISP

eneral QoL open-ended q.

otal number of items



Group C

Group B

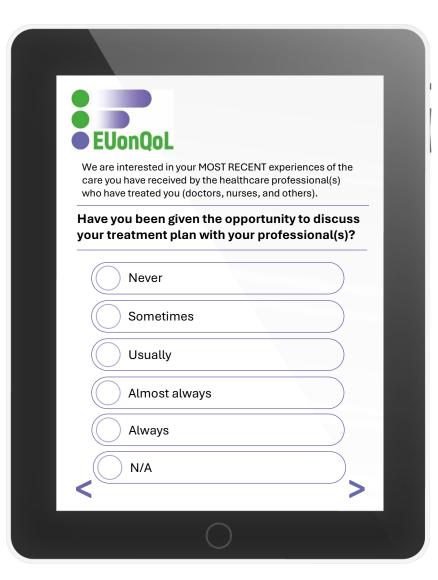
Group A





Active treatment	Survivors	In need of PC	QoL sub-domain
3	3	2	Physical Functioning (PF)
2	2	2	Role Functioning (RF)
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Problems (SL)
3	3	3	Emotional Functioning (EF)
3	3	3	Social Functioning (SF)
2	2	1	Financial difficulties (FI)
18	18	16	

6	6	6	Other physical symptoms
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50	50	44	Total number of items







QoL su	Group C In need of PC	Group B Survivors	Group A Active treatment
Physical Fur	2	3	3
Role Function	2	2	2
Pain (PA)	2	2	2
Fatigue (FA)	2	2	2
Sleeping Pro	1	1	1
Emotional F	3	3	3
Social Funct	3	3	3
Financial di	1	2	2
J	16	18	18

50 44	50	т
1 1	1	Ģ
3 3	3	
6 7	7	P
16 11	15	C
6 6	6	C

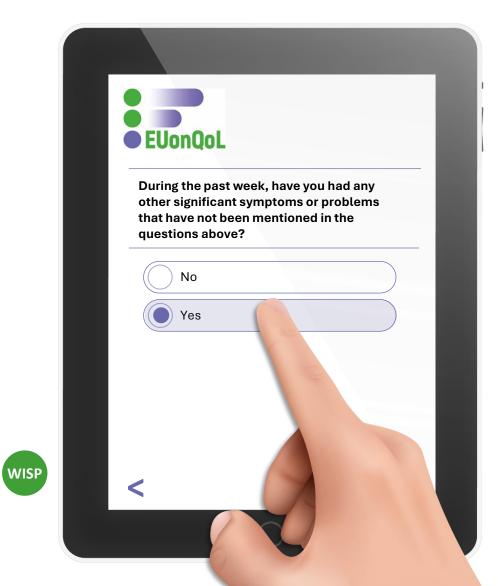
Group C n need of PC	QoL sub-domain
2	Physical Functioning (PF)
2	Role Functioning (RF)
2	Pain (PA)
2	Fatigue (FA)
1	Sleeping Problems (SL)
3	Emotional Functioning (EF)
3	Social Functioning (SF)
1	Financial difficulties (FI)
16	
6	Other physical symptoms
11	Other mixed items

Patient experiences

Overall health/QoL + WISP

General QoL open-ended q.

Total number of items



Group C

Group B

Group A





QoL s	In need of PC	Survivors	Active treatment
Physical Fu	2	3	3
Role Funct	2	2	2
Pain (PA)	2	2	2
Fatigue (FA	2	2	2
Sleeping P	1	1	1
Emotional	3	3	3
Social Fund	3	3	3
Financial d	1	2	2
J	16	18	18

50	50	44
1	1	1
3	3	3
7	6	7
15	16	11
6	6	6



Other mixed items

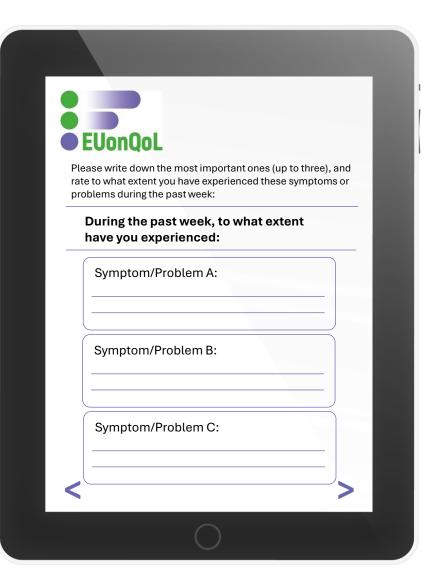
Patient experiences

Overall health/QoL + WISP

WISP

General QoL open-ended q.

Total number of items



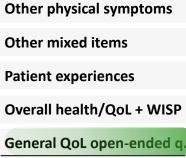




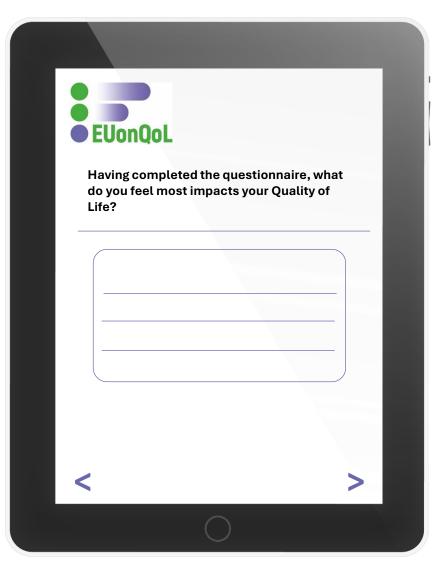
Group A Active treatment	Group B Survivors	Group C In need of PC	QoL sub
3	3	2	Physical Fun
2	2	2	Role Functio
2	2	2	Pain (PA)
2	2	2	Fatigue (FA)
1	1	1	Sleeping Pro
3	3	3	Emotional F
3	3	3	Social Functi
2	2	1	Financial dif
18	18	16	

6	6	6	Oth
15	16	11	Oth
7	6	7	Pati
3	3	3	Ove
1	1	1	Ger
50	50	44	Tota

QoL sub-domain		
Physical Functioning (PF)		
Role Functioning (RF)		
Pain (PA)		
Fatigue (FA)		
Sleeping Problems (SL)		
Emotional Functioning (EF)		
Social Functioning (SF)		
Financial difficulties (FI)		





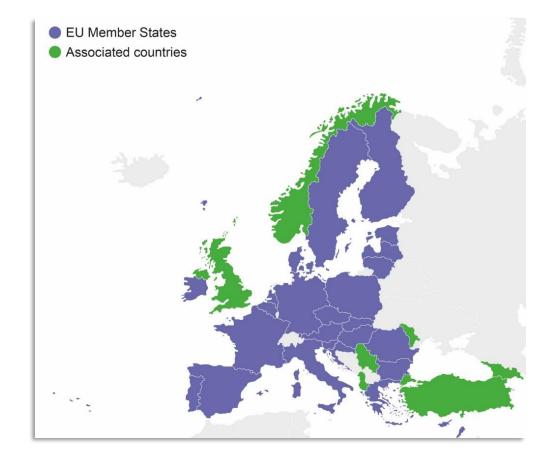




Translation and Cultural adaptation process (TCA)

- The EUonQoL-kit was developed in English as source language and then translated and culturally adapted (TCA process) into 30 European languages*
- It is then available in 31 languages spoken in 25 MS and 6 AC.
- TCA process was aimed at ensuring linguistic validity, cultural relevance, and overall quality of translated questionnaires, promoting cross-cultural comparability in cancer outcomes research

* Albanian, Bulgarian, Croatian, Czech, Danish, Dutch, Estonian, Finnish, French, Georgian, German, Greek, Hungarian, Italian, Irish, Latvian, Lithuanian, Maltese, Moldovan, Norwegian, Polish, Portuguese, Romanian, Serbian, Slovak, Slovenian, Spanish, Swedish, Turkish, Ukrainian





Translation and Cultural adaptation process (TCA)

- The TCA was accomplished adhering to ISPOR guidelines through an eight-step iteractive procedure:
 - forward translation
 - reconciliation
 - backward translation
 - harmonization
 - cognitive debriefing
 - review
 - proofreading
 - overall final reporting
- One centre in each country among those taking part to the EUonQoL-Kit Pilot survey contributed to the TCA process by looking over the kits during the final refining and definition steps.



Summary

- EUonQoL-Kit_V2 consists of six questionnaires (static and dynamic, across the three key phases of the cancer continuum)
- It covers four conceptual QoL domains (physical, psychological, social and overall health) and one additional patient-reported experience domain.
- The static and dynamic versions have been developed based on the same conceptual framework, domains and subdomains to allow comparative scores
- EUonQoL-kit_V2 was developed in English and underwent formal translation cultural adaptation into more than 30 European languages
- It was then tested through a pan European survey which preliminar results will now be presented in the next talks.



Thank you for your attention

https://www.euonqol.eu



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