## Questionnaire

## Brief Motivation

## What is Patient Reported Outcome (PRO)?

"A PRO is directly reported by the patient without interpretation of the patient's response by a clinician or anyone else and pertains to the patient's health, quality of life, or functional status associated with health care or treatment."

### Why are PROs important?

For physicians and researchers:

"For example, a new drug may demonstrate good clinical outcomes in terms of improving the length of survival for a particular patient group, while PROs may identify that patients are non-compliant with the drug regime due to reported adverse or side effects, complexity of the drug regime, and or a poor quality of life."

#### Why are PROs important?

#### For patients:

"In 2016, Basch et al. showed numerous clinical benefits associated with the use of PROs in cancer care, including improved health-related quality of life and a decrease in the frequency of hospitalizations."

## Question Types

#### Rating Scale & Slider Questions

1.	Do you have any trouble doing strenuous activities,	Not at All	A Little	Quite a Bit	Very Much
1.	like carrying a heavy shopping bag or a suitcase?	1	2	3	4
2.	Do you have any trouble taking a long walk?	1	2	3	4
3.	Do you have any trouble taking a short walk outside of the house?	1	2	3	4

► EORTC QLQ-C30: Core quality of life questionnaire

Capital Health			CARITA	AS HE	ALTH GRO	UF						
Edmonton Symptom Assessment System: Numerical Scale Regional Palliative Care Program												
Please circle th	e num	ber th	nat be	est de	escrib	es:						
No pain	0	1	2	3	4	5	6	7	8	9	10	Worst possible pain
Not tired	0	1	2	3	4	5	6	7	8	9	10	Worst possible tiredness

► ESAS Questionnaire

## Multiple Choice and Checkbox Questions

Under each heading, please tick the ONE box that best describes your health TODAY.

MOBILITY
I have no problems in walking about
I have slight problems in walking about
I have moderate problems in walking about
I have severe problems in walking about
I am unable to walk about

| Comparison of the co

Dur	ring the past week:	No	Yes
61.	Have you used pain-killers?	1	2
62.	Have you taken any nutritional supplements (excluding vitamins)?	1	2
63.	Have you used a feeding tube?	1	2

► EORTC QLQ - H&N35

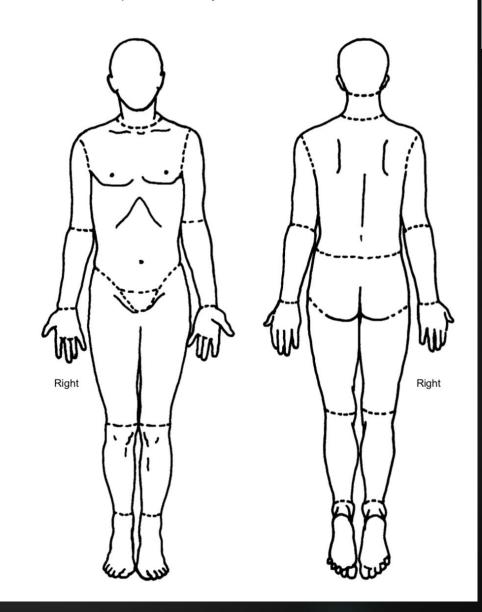
#### Text Box

53.	a) Do you wish to receive <u>more</u> information?	Yes	No
	b) If yes, please specify on which topics?		
54.	a) Do you wish that you had received <u>less</u> information?	Yes	No
	b) If yes, please specify on which topics?		

▶ EORTC QLQ-INFO25: Educational Material

## Labelling Question

Please mark on these pictures where it is you hurt.

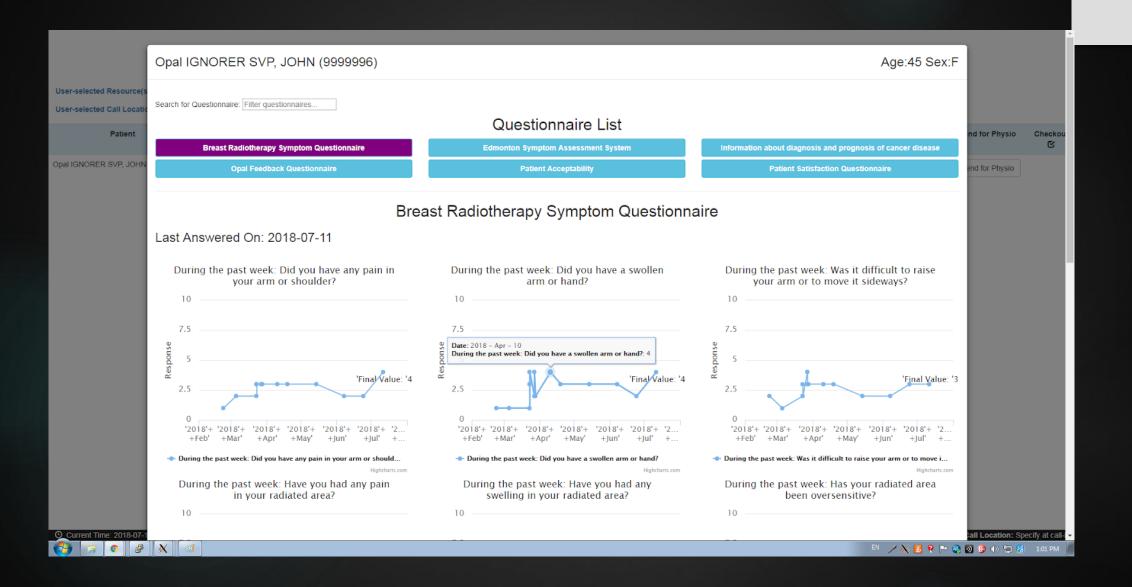


► ESAS questionnaire

# Question Types in Opal

## Questionnaire Database

## Clinical Tools

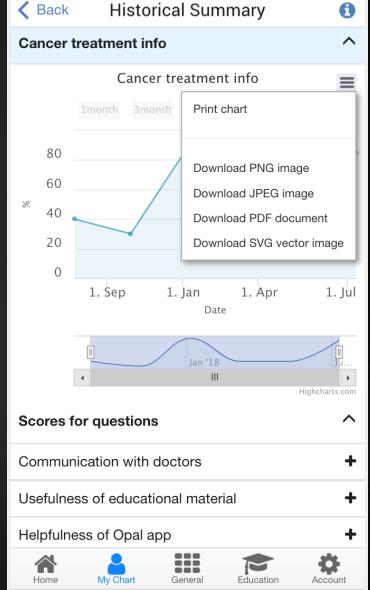


# Publishing a Questionnaire

## Sub-Projects

### Historical Visualizations



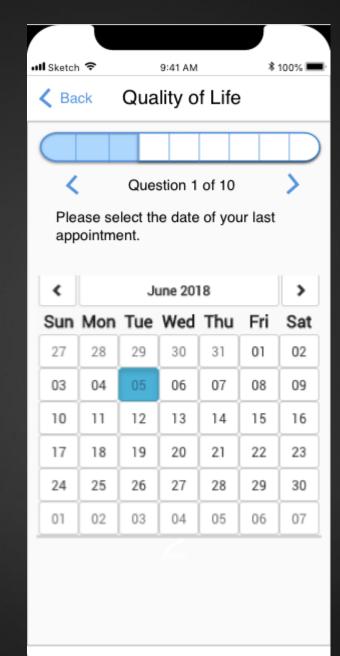


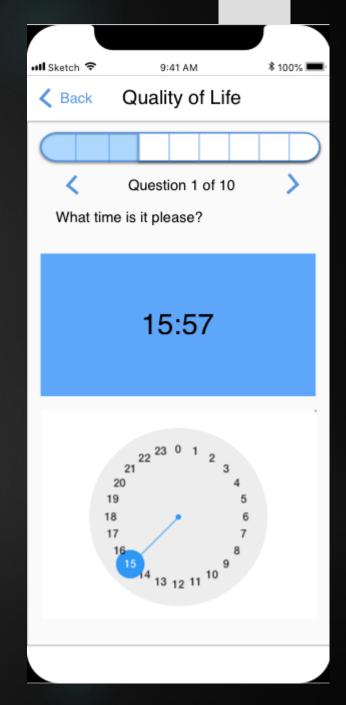
https://github.com/Sable/hig/tree/ master/QVIS W2018 Zhengbo Wan

## Labelling Question

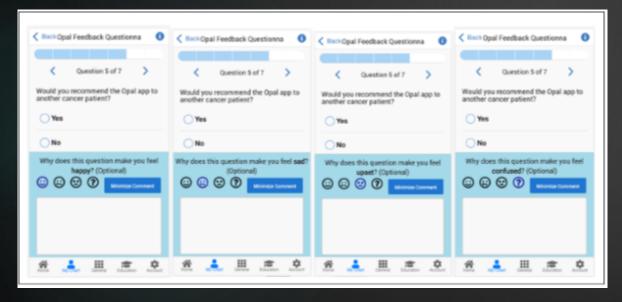


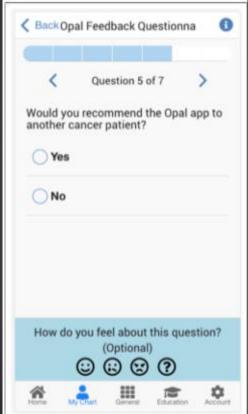
#### Date and Time

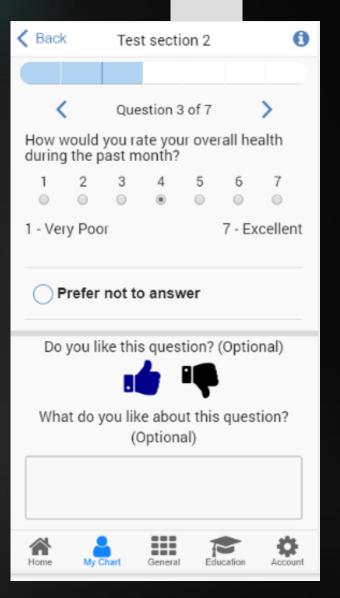




#### Feedbacks







## Conditional Questionnaires

- https://github.com/Sable/hig/tre e/master/ariane
- https://github.com/Sable/hig/tree/master/vince

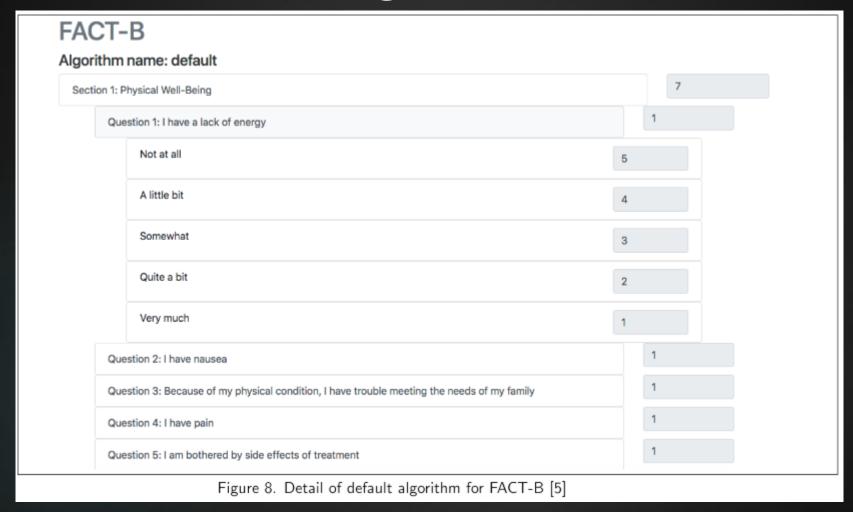
<b>≺</b> Back	Summary Page	Submit					
Physical Well-Being							
1. I have a lack of en	nergy	Not at all					
2. I have nausea		Not at all					
Because of my ph have trouble meeting family	,	Very much					
4. I have pain		Not at all					
So	cial/Family Well-Being						
1. I feel close to my	friends	A little bit					
2. I get emotional su	pport from my family	Not at all					
3. I get support from	my friends	A little bit					
4. My family has acc	epted my illness	Not at all					
5. I feel close to my who is my main supp	partner (or the person port)	Not at all					
6. I am satisfied with	my sex life	Not at all					
E	Emotional Well-Being						
1. I feel sad		Not at all					
I am satisfied with with my illness	how I am coping	Not at all					
Home My Chart	General Education	on Account					

(a) Question 3 triggered one additional question

Back	Sı	ımmary Pa	ge	Submit					
Physical Well-Being									
1. I have a l	ack of energy	/		Not at all					
2. I have na	usea			Not at all					
	of my physic e meeting the			Not at all					
4. I am both treatment	nered by side	effects of		Quite a bit					
5. I feel ill				Not at all					
6. I am force	ed to spend t	time in bed		Very much					
Social/Family Well-Being									
1. I feel clos	se to my frien	ds		Not at all					
2. I get emo	tional suppo	rt from my	family	Somewhat					
3. I get sup	port from my	friends		A little bit					
4. My family	/ has accepte	ed my illnes	S	Somewhat					
5. I am satisfied with family communication about my illness									
	se to my part main support)		person	Somewhat					
				484					
Home	My Chart	General	Education	Account					
4			.1	4141 1					

(b) Question 3 triggered three additional questions

## Questionnaire Algorithms



https://github.com/Sable/hig/tree/master/Zhening Winter 2018