## **Electronic Supplementary Material 1**

Raw data from the survey. All tables correspond to the Figure with the same number.

Table 1: Responses by country

Country	Respo	onses
Australia	3	0.75%
Austria	84	21.00%
Belgium	8	2.00%
Bulgaria	15	3.75%
Canada	2	0.50%
Croatia	1	0.25%
Czech Republic	1	0.25%
France	158	39.50%
Germany	1	0.25%
Iraq	1	0.25%
Ireland	5	1.25%
Italy	3	0.75%
Liechtenstein	1	0.25%
Netherlands	18	4.50%
Nigeria	1	0.25%
Portugal	2	0.50%
Russian Federation	18	4.50%
Spain	9	2.25%
Switzerland	20	5.00%
Turkey	1	0.25%
United Kingdom	38	9.50%
United States of America	7	1.75%
Answered	397	
Skipped	3	
TOTAL	400	

Table 2:

Age	Printed Responses	Percentage	Online Responses	Percentage	Total (all responses)	Percentage
Under 20	3	1.20%	3	2.05%	6	1.50%
21-30	10	4.02%	9	6.16%	19	4.75%
31-40	15	6.02%	32	21.92%	47	11.75%
41-50	33	13.25%	43	29.45%	76	19.00%
51-60	64	25.70%	33	22.60%	97	24.25%
61-70	63	25.30%	18	12.33%	81	20.25%
71-80	50	20.08%	6	4.11%	56	14.00%
81-90	11	4.42%	2	1.37%	13	3.25%
91+	0	0.00%	0	0.00%	0	0.00%
Total	249		146		395	

Skipped 5 TOTAL 400

**Table 3:** Gender of respondents

Gender	Responses		
Female	255	63.75%	
Male	137	34.25%	
Other	1	0.25%	
Answered	393	98.25%	
Skipped	7	1.75%	
TOTAL	400		

**Table 4:** How many times have you undergone radiological scans in the last two years?

Options	Responses	
0	4	1.00%
1-5	281	70.25%
6-10	81	20.25%
11-15	21	5.25%
16 or more	7	1.75%
Answered	394	98.50%
Skipped	6	1.50%
TOTAL	400	

**Table 5:** How satisfied were you with your overall experience with radiological services in the last two years?

Rating*	Responses	
1	9	2.25%
2	17	4.25%
3	40	10.00%
4	135	33.75%
5	188	47.00%
TOTAL	389	97.25%
Skipped	11	2.75%
Avg rating	4.22	

<sup>\*(1=</sup> very unsatisfied, 5 = very satisfied)

**Table 6:** How satisfied were you with the information provided about the procedure (risks, benefits, description of how it is performed)?

Rating*	Responses	
1	24	6.00%
2	41	10.25%
3	44	11.00%
4	105	26.25%
5	86	21.50%
TOTAL	300	75.00%
Skipped	100	25.00%
Avg rating	3.63	

<sup>\*(1=</sup> very unsatisfied, 5 = very satisfied)

**Table 7:** Were you supplied with a copy of the radiology report from your examination?

Options	Res	ponses
Yes	224	56.00%
No	154	38.50%
Answered	378	94.50%
Skipped	22	5.50%
TOTAL	400	

**Fable 8:** How satisfied were you with the way your results were communicated to you?

Rating*	Responses	
1	23	5.75%
2	32	8.00%
3	63	15.75%
4	122	30.50%
5	116	29.00%
TOTAL	356	89.00%
Skipped	44	11.00%
Avg rating	3.78	

<sup>\*(1=</sup> very unsatisfied, 5 = very satisfied)

**Tables 9A-F:** Please rate the following aspects of the radiology service (1 = very unsatisfied, 5 = very satisfied):

Table 9A: Courtesy of the staff

Rating	Frequency	Percent
1	8	2.00%
2	10	2.50%
3	43	10.75%
4	127	31.75%
5	194	48.50%
Answered	382	95.50%
Skipped	18	4.50%
TOTAL	400	
Avg rating	4.28	

**Table 9B:** Information provided about benefits & risks of the procedure

Rating	Frequency	Percent
1	37	9.25%
2	63	15.75%
3	72	18.00%
4	107	26.75%
5	88	22.00%
Answered	367	91.75%
Skipped	33	8.25%
TOTAL	400	
Avg rating	3.40	

**Table 9C:** Waiting times (i.e. from referral to appointment)

Rating	Frequency	Percent
1	15	3.75%
2	27	6.75%
3	77	19.25%
4	135	33.75%
5	118	29.50%
Answered	372	93.00%
Skipped	28	7.00%
TOTAL	400	
Avg rating	3.84	

**Table 9D:** Time-to-diagnosis (from initial referral)

Rating	Frequency	Percent
1	12	3.00%
2	26	6.50%
3	71	17.75%
4	136	34.00%
5	121	30.25%
Answered	366	91.50%
Skipped	34	8.50%
TOTAL	400	
Avg rating	3.90	

**Table 9E:** Information provided by radiology staff following diagnosis

,					
Rating	Frequency	Percent			
1	29	7.25%			
2	34	8.50%			
3	75	18.75%			
4	104	26.00%			
5	108	27.00%			
Answered	350	87.50%			
Skipped	50	12.50%			
TOTAL	400				
Avg rating	3.65				

**Table 9F:** Availability of the radiologist for personal consultation

Rating	Frequency	Percent
1	51	12.75%
2	63	15.75%
3	64	16.00%
4	84	21.00%
5	83	20.75%
Answered	345	86.25%
Skipped	55	13.75%
TOTAL	400	
Avg rating	3.25	

**Table 10:** Were you previously familiar with the concept of value-based healthcare (VBH) / value-based radiology (VBR)?

, ,					
Options	Re	Responses			
Yes	71	17.75%			
No	293	73.25%			
Answered	364	91.00%			
Skipped	36	9.00%			
Total	400				

**Table 11:** Which do you consider the most important aspect of value in radiology?

Options	Frequency	Percentage
Cost (out of pocket or cost to the health system/insurer)	10	2.50%
Efficiency / safety	180	45.00%
Service (the way you are treated, waiting times, time-to-diagnosis)	122	30.50%
Answered	312	78.00%
Skipped	68	17.00%
Gave multiple answers		
Cost & Efficiency/Safety	2	0.50%
Cost & Service	4	1.00%
Efficiency/Safety & Service	14	3.50%
TOTAL	400	

**Table 12:** Which quality aspect do you consider most important in radiology?

	Ranking position*								
	,	1	2		3		4		
	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage	Average ranking*
Efficiency (the necessary results are obtained using fewest possible procedures / time)	21	14.29%	21	14.29%	21	14.29%	84	57.14%	3.14
Effectiveness (the correct examinations are performed to produce the necessary results for diagnosis)	43	29.25%	41	27.89%	51	34.69%	12	8.16%	2.22
Safety of the exams	28	19.05%	38	25.85%	44	29.93%	37	25.17%	2.53
Accuracy / correctness of the diagnosis	55	37.41%	47	31.97%	31	21.09%	14	9.52%	2.03
TOTAL	147		147		147		147		

\*(1 = most important, 4 = least important)

rated as most important rated as least important

**Table 13:** Which service aspect do you consider most important in radiology?

		Ranking position*											
		1	2		;	3		4 5		5	6		
	Frequenc y	Percenta ge	Frequenc y	Percenta ge	Frequenc y	Percenta ge	Frequenc y	Percenta ge	Frequenc y	Percenta ge	Frequenc y	Percenta ge	Average ranking*
Courtesy of the staff	17	15.18%	10	8.93%	19	16.96%	26	23.21%	16	14.29%	24	21.43%	3.76
Information provided about benefits & risks of the procedure	15	13.39%	14	12.50%	16	14.29%	23	20.54%	25	22.32%	19	16.96%	3.66
Waiting times (i.e. from referral to appointment)	24	21.43%	22	19.64%	17	15.18%	13	11.61%	21	10.71%	15	13.39%	3.27
Time-to-diagnosis	27	24.11%	24	21.43%	19	16.96%	16	14.29%	12		14	12.50%	3.04
Information provided following diagnosis by radiology staff	20	17.86%	15	13.39%	26	23.21%	22	19.64%	22	19.64%	7	6.25%	3.29
Availability of the radiologist for personal consultation	9	8.04%	27	24.11%	15	13.39%	12	10.71%	16	14.29%	33	29.46%	3.88
TOTAL	112		112		112		112		112		112		

\*(1= most important, 6 = least important)

rated as most important

rated as least important

**Table 14:** What factors are most important to you in receiving radiology services? (Select the three most important to you).

Options	Responses		
	Frequency*	Percentage**	
Appropriate scan is performed	107	39.78%	
Being able to arrange an appointment online	6	2.23%	
Being able to get an appointment quickly	55	20.45%	
Diagnosis is quick	98	36.43%	
Doctor consults patient on procedure options	40	14.87%	
Doctor explains the procedure	39	14.50%	
Doctor knows me / cares about me	25	9.29%	
Doctors / nurses / staff are friendly	25	9.29%	
My confidence in the doctor / their qualifications	94	34.94%	
My confidence in the equipment used	37	13.75%	
My health improves	38	14.13%	
No errors are made in diagnosis	118	43.87%	
Out-of-pocket expenses are affordable	5	1.86%	
Radiologist is available to explain diagnosis	74	27.51%	
Radiology facility is easily accessible	10	3.72%	
Surroundings in hospital / scanner etc. are clean / pleasant	13	4.83%	
Waiting times at the hospital / surgery etc. are short	22	8.18%	
Other (please specify)	1	0.37%	

<sup>\*</sup>How many respondents selected that option in their top 3

<sup>\*\*%</sup> Equals percentage of 269 valid responses which included that option as one of their top three.



## ESR Value-Based Radiology Patient Survey https://www.surveymonkey.com/r/2M6D3NV

The European Society of Radiology (ESR) is conducting a survey with the aim of better understanding what value in radiology means to patients. Completing this survey will help us work towards a future in which the field of radiology provides the greatest possible value to patients. The survey will take approximately 10 minutes to complete. We thank you for providing us with your

Part 1:						
Countr	y:					
City:						
Age:						
Sex:						
Part 2:						
<b>1</b> . How	many times have y	ou undergone radio	logical scans in	the last two years? (pleas	se tick)	
	0	1-5	6-10	11-15	16+	
<b>2.</b> Wha	at kind of imaging pr	ocedure(s) have you	ı undergone in tl	he last two years? (pleas	e tick)	
•	X-Ray					
•	Computed Tomog	raphy (CT)				
•	Magnetic Resonar	nce Imaging (MRI)				
•	Ultrasound (US)					
•	Other					
<b>3.</b> How satisfied were you with your overall experience with radiological services in the last two years? (1= very unsatisfied, 5 = very satisfied) (please tick)						
	1	2	3	4	5	
4. Did you receive written information about the imaging procedure? (please tick)						
•	Yes					
•	No					

				e procedure (risks, ben y satisfied) (please tick)	
	1	2	3	4	5
<b>6.</b> Wer	e you supplied with	a copy of the radiolo	gy report from yo	ur examination? (please	e tick)
•	Yes		(		
•	No				
		with the way your resery satisfied) (please		unicated to you?	
	1	2	3	4	5
		r undergoing an x-ray iation dose exposure		e you are entitled to rece	eive
•	Yes		(		
•	No		l		
	u underwent x-ray oure after the procedu		you receive inforr	mation about your radia	tion dose
•	Yes		(		
•	No		(		
	ease rate the following (please tick)	ng aspects of the rad	liology service: (1	= very unsatisfied, 5 = v	/ery
•	Courtesy of the sta	aff			
	1	2	3	4	5
•	Information provid	ed about benefits & ı	risks of the proced	dure	
	1	2	3	4	5 
•	Waiting times (i.e.	from referral to appo	pintment)		
	1	2	3	4	5
•	Time to diagnosis	(i.e. from initial refer	ral)		
	1	2	3	4	5

•	Information provide	ed following diagnos	sis by radiology staff			
	1	2	3	4	5	
•	Availability of the r	adiologist for persor	nal consultation			
	1	2	3	4	5	
<b>11.</b> Wh	nat could have impro	oved your experience	e?			
Part 3:	:					
cons			care achieved when e overall outcomes c			
	re you previously fan ology (VBR)? (pleas		ng of value-based he	ealthcare (VBH) / val	ue-based	
•	Yes					
•	No					
<b>13.</b> Wh	13. Which do you consider the most important aspect of value in radiology? (please tick)					
•	Cost (out of pocke	t or cost to the healt	h system/insurer) (go	to part 4)		
•	Efficiency / Safety	(go to part 5)				
•	Service (the way y (go to part 6)	ou are treated, waiti	ng times, time-to-dia	gnosis)		

Part 4:	if cost:	
<b>14.</b> Do	you have public/statutory/mandatory or private health insurance? (please tick)	
•	Public	
•	Private	
•	Both	
•	Neither	
	Go to part 7	
Part 5:	if efficiency / safety:	
	nich aspect of efficiency/safety do you consider most important in radiology? (pleat according to importance) (1 = most important, 4 = least important)	se rank
•	Efficiency (the necessary results are obtained using fewest procedures/time)	
•	Effectiveness (the correct examinations are performed to produce the necessary results for diagnosis)	<i>'</i> 🗌
•	Safety of the exams	
•	Accuracy/correctness of the diagnosis	
	Go to part 7	
Part 6:	if service:	
	nich service aspect do you consider most important in radiology? (please rank theing to importance) (1 = most important, 6 = least important)	m
•	Courtesy of the staff	
•	Information provided about benefits & risks of the procedure	
•	Waiting times (i.e. from referral to appointment)	
•	Time to diagnosis	
•	Information provided following diagnosis by radiology staff	
•	Availability of the radiologist for personal consultation	

Go to part 7

Part 7:			
<b>17.</b> Which (pleas	factor do you think most affects the value of radiolo e tick)	gy within the healthcare ch	nain?
• R	eferral		
• Ti	reatment decisions based on diagnosis		
• Fo	ollow up / monitoring		
<b>18.</b> Is cos	t or quality of service more important in defining 'valu	ue'? (please tick)	
• C	ost		
• Q	uality		
• B	oth		
<b>19.</b> Are yo	ou able to choose where you receive radiology service	ces? (please tick)	
• Y	es (go to question 20)		
• N	o (go to <b>question 21</b> )		
	of the following is most important to you when you (please tick)	choose where you receive	radiology
•	Cost (the amount I pay for the services I receive)		
•	Quality (the efficiency, effectiveness, safety, and rether the care I receive)	esults or outcomes of	
•	Service (the way I am treated as a patient)		
•	Location (close to home/work, accessible)		

<b>21.</b> What factors are most important to you in receiving radiology services? (please select the three most important to you). (1 = most important, 3 = least important)					
•	Appropriate scan is performed		•	My confidence in the equipment used	
•	Being able to arrange an appointment online		•	My health improves	
•	Being able to get an appointment quickly		•	No errors are made in diagnosis	
•	Diagnosis is quick		•	Out-of-pocket expenses are affordable	
•	Doctor consults patient on procedure options		•	Radiologist is available to explain diagnosis	
•	Doctor explains the procedure		•	Radiology facility is easily accessible	
•	Doctor knows me / cares about me		•	Surroundings in hospital / scanner etc. are clean / pleasant	
•	Doctors / nurses / staff are friendly		•	Waiting times at the radiology facility are short	
•	My confidence in the doctor / their qualifications		•	Other	

## **End of survey**

Thank you for providing us with your feedback!

## EUROPEAN SOCIETY OF RADIOLOGY