The elicitation of patient and physician preferences for calculating consumer-based composite measures on Hospital Report Cards: Results of two discrete choice experiments

Supplemental material

Supplemental material 1. Results from literature review and qualitative research steps for the patients related DCE experiment (selected measures are indicated in *italics*)

	Hospital information criteria	Relevance of information for hospital choice			
		Literature Review[#]	Mailed survey before qualitative interviews		Qualitative interviews[#]
			Mean	SD	
1	Distance (home to hospital)	High	3.05	1.16	Middle
2	Ownership	High	2.65	1.01	Low
3	University hospital/teaching hospital	High	3.45	1.07	Middle
4	*The number of cases treated*	*Middle*	*4.50*	*0.74*	*High*
5	*Endocert Certificate*	*High*	*4.75*	*0.43*	*Middle*
6	Mortality rate	Middle	3.95	1.28	Low
7	*Postoperative complication rate*	*High*	*4.45*	*0.74*	*High*
8	General complication rate	High	4.05	0.86	Low
9	*Confirmed diagnosis rate**	-	*4.80*	*0.51*	*Middle*
10	*Prevention of falls measures**	-	*4.30*	*0.64*	*Middle*
11	*Mobility at hospital discharge**	-	*4.35*	*0.79*	*Middle*
12	Inability to walk at discharge*	-	4.25	0.94	Middle
13	1-year revision rate	Middle	3.90	1.18	Low

* Those measures were added based on the German hospital quality report 2020 but were not identified by means of the literature review.
[#] Relevance was rated as low, middle, or high based on study results or semi-structured interviews.

Supplemental material 2. Importance of different information items for the hospital decision among patients (n = 322) and referring physicians (n = 187)

(p value was calculated using t tests)

Information items for the hospital decision	Importance of different information items [Mean (SD)]*			Most important information item$ [n (%)]	
	Patients (n = 299-314)	Referring physicians (n = 187)	p	Patients (n = 265)	Referring physicians (n = 181)
Confirmed diagnosis (hip surgery) rate	4.65 (0.80)	3.67 (1.23)	<.001	118 (44.5%)	13 (7.2%)
Endocert Certificate	4.09 (1.03)	3.05 (1.16)	<.001	32 (12.1%)	9 (5.0%)
The number of cases treated	4.35 (0.90)	4.09 (0.98)	.002	62 (23.4%)	65 (35.9%)
Complication rate	4.54 (0.81)	4.19 (1.06)	<.001	18 (6.8%)	53 (29.3%)
Mobility at hospital discharge	4.60 (0.73)	3.31 (1.18)	<.001	35 (13.2%)	4 (2.2%)
Prevention of falls measures	4.29 (0.97)	n.a.	n.a.	0 (0.0%)	n.a.
1-year revision surgery rate	n.a.	4.00 (1.21)	n.a.	n.a.	37 (20.4%)

* Importance of items is rated on a 1–5 scale [1 not all important; 5 extremely important]
$ Which information was most important for your hospital choice?

Supplemental material 3. Parameters estimated from the multinomial logit (MNL) models (Discrete Choice Experiment; patients vs. physicians)

Attributes	Patients (n = 322)				Referring physicians (n = 187)			
	Coeff.	SE	z	p	Coeff.	SE	z	p
Confirmed diagnosis rate	0.437	0.033	13.24	<.001	0.390	0.052	7.54	<.001
Endocert Certificate	0.341	0.033	10.23	<.001	0.310	0.047	6.62	<.001
The number of cases treated	0.547	0.036	15.07	<.001	0.696	0.051	13.61	<.001
Complication rate	0.560	0.037	15.08	<.001	0.546	0.050	10.83	<.001
Mobility at hospital discharge	0.551	0.036	15.15	<.001	0.236	0.046	5.14	<.001
Prevention of falls measures	0.431	0.035	12.35	<.001	n.a.	n.a.	n.a.	n.a.
1-year revision surgery rate	n.a.	n.a.	n.a.	n.a.	1.014	0.053	19.10	<.001
Model constant (Intercept)	0.325	-0.045	-7.29	<.001	n.a.	n.a.	n.a.	n.a.