

# **The impact of frailty and surgical risk on health-related quality of life after TAVI**

A systematic review and meta-analysis

## **Supplementary Materials**

## Supplementary Materials

Table S1. Health-related quality of life, measured by MLHFQ after TAVI.

Table S1a indicates the effect of TAVI on HrQoL, measured by MLHFQ after 30 days.

Study	Pre-TAVI			Post-TAVI			<i>p</i>
	N	Mean	SD	N	Mean	SD	
Gotzmann 2011 [28]	51	39,6	19	51	26,1	18	< 0.001
Gouda 2020 [29]	82	32,2	15,6	82	13,2	11,5	< 0.001

Table S1b indicates the effect of TAVI on HrQoL, measured by MLHFQ, after 1 year.

Study	Pre-TAVI			Post-TAVI			<i>p</i>
	N	Mean	SD	N	Mean	SD	
Gotzmann 2011 [28]	51	39,6	19	51	26,1	18	< 0.001
Gouda 2020 [29]	41	28,8	15	82	17,3	16,9	0.001

*Table S2. Health-related quality of life, measured by remaining tools, after various periods of follow-up*

Study	HrQoL questionnaire	Follow-up	Pre-TAVI			Post-TAVI			Odds ratio 95% CI
			N	Mean	SD	N	Mean	SD	
Arnold 2021 [19]	SF-12 PCS	1 year	639	28,4	8,2	318	33,2	9,6	0,81 0,68-0,94
	SF-12 MCS	1 year	639	46,2	12,2	318	48,6	11,4	
Baron 2017 [21]	SF-36 PCS	1 year	950	36,0	8,9	746	40,3	2,3	0,71 0,64-0,78
	SF-36 MCS	1 year	950	48,7	11,3	746	51,7	3,2	
Boureau 2017 [23]	EQ-5D	1 year	950	0,75	0,2	754	0,79	0,1	0,88 0,81-0,95
	SF-36 PCS	6 months	150	33,6	8,4	119	36,4	9,96	
	SF-36 MCS	6 months	150	55,6	8,1	119	48,2	9,44	
Dziewierz 2018 [25]	EQ-VAS	1 year	148	24,1	17,6	116	68,8	11,1	
Frantzen 2021 [26]	SF-12 PCS	6 months	124	34,0	10,5	96	40,1	10,5	0,71 0,64-0,78
	SF-12 MCS	6 months	124	48,7	11	96	51,4	9,3	
Goudzwaard 2020 [16]	EQ-5D	1 year	235	0,66	0,3	196	0,73	0,24	
Osnabrugge 2015 [33]	SF-12 PCS	1 year	436	28,5	8,3	366	34,1	10,6	0,71 0,64-0,78
	SF-12 MCS	1 year	436	45,8	12,3	366	51,7	11,8	
Sondergaard 2018 [34]	EQ-5D	1 year	436	0,65	0,24	366	0,73	0,2	0,88 0,81-0,95
	EQ-VAS	1 year	620	62,2	18,8	620	69	17,9	

*Table S3. Quality of life of frail patients, measured by remaining tools, after TAVI*

Study	Frailty measurement	Follow-up	HrQoL questionnaire	Pre-TAVI			Post-TAVI	
Boureau 2017 [23]	TUG	6 months	SF-36 PCS	N	Mean	SD	N	Mean
			SF-36 MCS	119	33,7	8,5	119	36,4
Goudzwaard 2020 [16]	SOF-index	1 year	SF-12 PCS	119	55,6	8,2	119	48,2
			SF-12 MCS	81	32,2	9,6	53	35,8
Sondergaard 2018 [34]	Erasmus frailty score	1 year	EQ-5D	81	47,1	11,8	53	48,5
			EQ-VAS	70	0,55	0,26	51	0,44
	Erasmus frailty score	1 year		70	58,4	16,8	51	63,4

*Figure S1. Health-related quality of life, measured by KCCQ, 1 month after TAVI.*

