

Supplementary Table S1

	Non-responder	QOLIBRI cohort		Non-responder	QOLIBRI cohort	
	male n=183	male n=102	p-value	Female n=68	female n=33	p-Value
TBI severity mild/ moderate/ severe/ n.s. (%) ^a	9.3/6/35/49.7	16.7/13.7/32.4/37.2	0.04*	2.9/5.9/25/66.2	3/12.1/45.5/39.4	0.9
TBI etiology traffic accidents/ falls/ others (%) ^b	45.9/44.3/9.8	43.1/46.1/10.8	0.79	36.8/54.4/8.8	72.7/24.2/3.1	0.002**
Age at TBI (mean ± SEM) ^a	49.67 ± 1.52	47.41 ± 1.98	0.35	54.69 ± 2.63	47.76 ± 3.36	0.07
Age at survey (mean ± SEM) ^a	55.3 ± 1.54	53.08 ± 1.92	0.38	58.87 ± 2.62	53.24 ± 3.19	0.13
Time since TBI (mean ± SEM) [‡]	5.56 ± 0.23	5.71 ± 0.3	0.75	4.12 ± 0.3	5.48 ± 0.53	0.03*
Decompressive craniectomy (%) ^b	32.2	24.5	0.18	30.9	36.4	0.65
ICP monitoring or permanent shunt device (%) ^b	64.5	55.9	0.16	54.4	60.6	0.67
Tracheostomy (%) ^b	68.9	54.9	0.02	47.1	51.5	0.83
Time to onset of neurorehabilitation ^a (days, mean ± SEM)	30.5 ± 3.05	26.78 ± 2.89	0.51	27.78 ± 3.85	25.61 ± 3.22	0.59
Duration of neurorehabilitation ^a (days, mean ± SEM)	52.94 ± 3.71	36.68 ± 2.81	0.05	48.76 ± 7.11	46.09 ± 7.81	0.88
Functional status at admission (mobile (mRS 0- 3)/ immobile (mRS 4-5)/ n.c. (%)) ^b	8.2/91.8/0	3.9/95.1/1	0.22	17.6/82.4/0	9.1/90.9/0	0.37
(mean ± SEM) ^a	4.61 ± 0.07	4.65 ± 0.07	0.65	4.31 ± 0.15	4.46 ± 0.18	0.78
Functional status at discharge (mobile (mRS 0- 3)/ immobile (mRS 4-5)/ n.c. (%)) ^b	59/41/0	82.4/17.6/0	<0.001**	60.3/39.7/0	75.8/24.2/0	0.18
(mean ± SEM) ^a	3.17 ± 0.11	2.23 ± 0.12	<0.0001***	3.01 ± 0.2	2.3 ± 0.23	0.03*

^a Mann-Whitney-U-Test for numeric variables

^b Fisher-Test for categorical variables; if more than 2 categories are given, Fisher-Test was performed for the 2 main categories

n.c.: not classified in the medical record; n.s.: not specified in the medical record; TBI: traumatic brain injury; ICP: intracranial pressure; mRS: modified Rankin Score

Supplementary Table S2

QOLIBRI cohort Subgroup of 54-76-year-olds			
	male n=42	female n=16	p-value
TBI severity mild/ moderate/ severe/ n.s. (%) ^a	28.6/14.3/14.3/42.8	6.2/25/37.5/31.3	0.03*
TBI etiology traffic accidents/ falls/ others (%) ^b	31/61.9/7.1	81.2/12.5/6.3	<0.001*
Age at TBI (mean ± SEM) ^a	65.38 ± 1.08	62.5 ± 1.67	0.22
Age at survey (mean ± SEM) ^a	70.55 ± 1.16	67.12 ± 1.67	0.13
Time since TBI (mean ± SEM) [‡]	5.31 ± 0.45	4.69 ± 0.69	0.42
Decompressive craniectomy (%) ^b	19	43.8	0.09
ICP monitoring or permanent shunt device (%) ^b	50	62.5	0.56
Tracheostomy (%) ^b	59.5	56.2	1
Time to onset of neurorehabilitation ^a (days, mean ± SEM)	26.07 ± 2.81	27.5 ± 5.68	0.97
Duration of neurorehabilitation ^a (days, mean ± SEM)	40.48 ± 4.65	40.12 ± 8.47	0.73
Functional status at admission (mobile (mRS 0- 3)/ immobile (mRS 4-5) (%) ^b (mean ± SEM) ^a	7.1/92.9 4.52 ± 0.15	6.2/93.8 4.69 ± 0.15	1 0.77
Functional status at discharge (mobile (mRS 0- 3)/ immobile (mRS 4-5) (%) ^b (mean ± SEM) ^a	78.6/21.4 2.48 ± 0.18	75/25 2.44 ± 0.36	0.74 0.74

^a Mann-Whitney-U-Test for numeric variables^b Fisher-Test for categorical variables; if more than 2 categories are given, Fisher-Test was performed for the 2 main categories
n.s.: not specified in the medical record; TBI: traumatic brain injury; ICP: intracranial pressure; mRS: modified Rankin Score

Supplementary Table S3

Health-related quality of life in the subgroup of 54-76-year-olds at TBI Mean $\pm$ SEM			
QOLIBRI item	Male n=42	Female n=16	<i>P</i>-value
QOLIBRI total score ^b	68.9 $\pm$ 3.3	52.1 $\pm$ 6.8	0.017*
Satisfaction ^a	268.2 $\pm$ 15.2	201.7 $\pm$ 28.9	0.033*
Cognition ^a	66.3 $\pm$ 4.2	45.6 $\pm$ 7.3	0.014*
Self ^a	67.2 $\pm$ 3.7	46.7 $\pm$ 7.5	0.009**
Daily life & autonomy ^b	64.1 $\pm$ 5.0	45.7 $\pm$ 9.3 ^c	0.106
Social relationships ^b	70.6 $\pm$ 3.7	66.7 $\pm$ 7.3	0.979
Restrictions ^b	149.2 $\pm$ 5.9	118.4 $\pm$ 12.6	0.03*
Emotions ^b	81.4 $\pm$ 3.2	62.5 $\pm$ 7.4	0.016*
Physical problems ^a	67.8 $\pm$ 3.9	55.9 $\pm$ 6.9	0.123
Key aspects satisfaction (score 0-400) and restrictions (score 0-200) are sum scores of subcategories as indicated ^a Normal distributed data according to D'Agostino-Pearson, omnibus K2; unpaired t-test ^b Mann-Whitney- <i>U</i> test for non-parametric data ^c For daily life & autonomy 15 females gave information			