Supplemental Table S1: Demographic and trauma characteristics of the patient group after imputation.

	Total (n=453)	Older mTBI patients (n=164)	Younger mTBI patients (n=289)	p-value*
Age, mean ±sd	49.2 ± 18.2	68.6 ± 7.0	39.2 ± 13.4	**<0.001**
Sex (Male), n(%)	270 (59.6)	98 (59.8)	172 (59.5)	0.96
Comorbidities, n(%)	155 (34.2)	105 (64.0)	50 (17.3)	**<0.001**
GCS=15, n(%)	297 (65.6)	116 (70.7)	181 (62.6)	0.07
Hospital admission, n(%)	283 (62.5)	113 (68.9)	170 (58.8)	**0.03**
Mechanism of injury, n(%)				0.35
Collision	108 (23.8)	31 (18.9)	77 (26.6)	
Fall	309 (68.2)	124 (75.6)	185 (64.0)	
Other cause	36 (7.9)	9 (5.5)	27 (9.3)	
Discharged to home, n(%)	434 (95.8)	157 (95.7)	277 (95.8)	0.95
ISS, mean ± sd	7.3 ± 5.2	7.6 ± 4.9	7.2 ± 5.0	0.36
CT-abnormalities, n(%)	78 (17.2)	33 (20.1)	45 (15.6)	0.24
Pre-injury physical†, n(%)	114 (24.7)	57 (34.8)	57 (19.7)	**<0.001**
Pre-injury mental health†, n(%)	33 (7.3)	11 (6.7)	22 (7.6)	0.72
Educational level high, n(%)	227 (50.1)	67 (40.9)	160 (55.4)	**<0.01**
Living alone, n(%)	86 (19.0)	29 (17.7)	57 (19.7)	0.60

Legend: Results are represented as number with percentages if not indicated otherwise. Older patients: aged ≥ 60 years, Younger patients: aged < 60 years, GCS: Glasgow Coma Scale, ISS: Injury Severity Score, CT: Computed Tomography, sd: standard deviation, * p-value of the difference between age-groups, † Pre-injury mental or physical health complaints.

Supplemental Table S2: Univariate and multivariable analysis of the predictors of one year post-injury HRQoL for younger patients (< 60 years).

| | | Poor one year post-injury HRQoL perception of younger patients (N=289) | | | | | |
| | | Univariate | | | Multivariable | | |
	Coding	OR	95% CI	p-value	OR	95% CI	p-value
Baseline data							
Gender	Male (0) – Female (1)	1.53	0.87-2.69	0.14	NS	NS	NS
Education level	Low (0) – High (1)	0.72	0.41-1.28	0.26	NS	NS	NS
GCS score ED	< 15 (0) – 15 (1)	1.53	0.87-2.71	0.14	NS	NS	NS
Pre-injury physical complaints	No (0) – Yes (1)	2.85	1.50-5.41	<0.01	NS	NS	NS
Pre-injury mental health	No (0) – Yes (1)	10.24	3.95-26.6	<0.01	6.64	2.21-20.0	<0.01
CT-abnormalities	No (0) – Yes (1)	2.07	1.03-4.15	0.04	NS	NS	NS
Two weeks post-injury							
Active coping style	No (0) – Yes (1)	0.76	0.40-1.54	0.40	NS	NS	NS
Passive coping style	No (0) – Yes (1)	3.30	1.80-6.06	<0.01	NS	NS	NS
Avoidant coping style	No (0) – Yes (1)	0.91	0.49-1.68	0.77	NS	NS	NS
Posttraumatic complaints	0-27	1.14	1.06-1.22	<0.01	NS	NS	NS
Anxiety scores	0-19	1.27	1.17-1.39	<0.01	1.13	1.02-1.26	0.02
Depression scores	0-19	1.29	1.19-1.40	<0.01	1.20	1.09-1.32	<0.01
Posttraumatic stress	0-61	1.05	1.03-1.07	<0.01	NS	NS	NS

Legend: CT: Computed Tomography, GCS = Glasgow Coma Scale, ISS = Injury Severity Score, HADS-A/D: Hospital Anxiety and Depression Scale- Anxiety or Depression, HRQoL = Health related quality of life.