

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Unit cost list for the German Health care system- 23.11.2022 (to be continued)

Category	Details	Unit	Unit Costs (in €)	Source*	Year
Inpatient	Psychiatric hospital	1 day	250.00	GKV Spitzenverband ¹	2017
	Psychosomatic hospital	1 day	250.00	GKV Spitzenverband ¹	2017
	Somatic hospital	1 day	643.15	Federal office of statistics ^{2,3}	2017
	Psychiatric rehabilitation	1 day	250.00	GKV Spitzenverband ¹	2017
Day hospital	Psychiatric day-care	1 day	190.00	GKV Spitzenverband ¹	2017
	Psychosomatic day-care	1 day	190.00	GKV Spitzenverband ¹	2017
	Somatic day-care	1 day	190.00	GKV Spitzenverband ¹	2017
Stäb		1 day	95.89	BKG Anlage 1a zur Vereinbarung gem.§§ 113, 118 und 120 SGB V zu PIA vom 01.01.2022	2022
Outpatient services	Psychiatrist	1 visit (10 min)	21.63	KBV ⁴ – Seite 80 in Arztgruppe-EBM 2022, Quartal 2,	2022
	Psychotherapist and Psychologist	1 visit (first 10 min)	8.90	KBV – Seite 477 in EBM 2022, Quartal 1	2022
	Psychotherapist and Psychologist	Every additional 10 min	17.35	KBV – Seite 479 in EBM 2022, Quartal 1	2022
	Psychotherapist and Psychologist	1h	95.65	KBV – Seite 479 in EBM 2022, Quartal 1 (8.90+(5+17.35))	2022
	General practitioner	1 visit	12.85	KBV ⁴	2017
	Other practitioner	1 visit	19.16	KBV ⁴	2017
	Forensic aftercare	1 visit	150.00	Official gazette of the ministry of justice Rhineland-Palatinate	2019
Complementary services	Occupational therapist	1 hour	73.41	GKV Spitzenverband (www.gkv-heilmittel.de) , Anlage 2, S.3)	2022
	Physiotherapist	1 hour	36,64	KBV ⁴	2017
	Neurologist	1 hour	144,06	KBV ⁴	2017
	Osteopath	40 min	105.00	Osteopaths association ⁵	2017
	Homeopath	40 min	60.00	NAV-Virchow-association ⁶	2013
	Alternative practitioner	30 min	12.30	Association of alternative practitioners ⁷	2002
	Speech therapist	45 min	45,18	KVBB ⁸	2017
	Endocrinologist	1 visit	23,69	KBV ⁴	2017
	Diabetologist	1 visit	23,69	KBV ⁴	2017

e Table 1 continued: Unit cost list for the German Health care system- 23.11.2022					
	Art therapy	90 min	100.00	Holzmann ⁹	2018
	Music therapy	50 min	40.00	Siebels ¹⁰	2018
	Nutrition counselling	1 hour	80.00	Conze ¹¹	2018
	Socio-pedagogical family assistance	1 hour	20.18	See Social Worker	2022
	Counselling (from church or community services, for child guidance, couples, sexual abuse, drug abuse...)	1 visit	43.90	Regional office of Caritas Ulm - Personal communication	2017
	Self-help group	--	--	Not charged	
	Socio-psychiatric counselling (incl. PIA)	1 hour	95.89	BKG Anlage 1a zur Vereinbarung gem. §§ 113, 118 und 120 SGB V zu PIA vom 01.01.2022	2022
	Parent-child counselling center	1 hour	20.18	See Social Worker	2022
	Sheltered workshop	1 day	47.26	Sheltered Workshop Provider Günzburg – Personal communication	2018
	Assisted living	1 month	630.43	Association of rehabilitation Ulm	2017
	Painting therapy	1 hour	85.00	Hik Kunsttherapie	2021
	Home care nursing service	Each 15 min	11.34	www.pflegemobil.info	2020
	Social worker	60 min	20.18	https://oeffentlicher-dienst.info/tvoed/sue/	2022
	Sports- or Dancetherapy	1 hour	61.64	Grupp et al.	2015
	Legal guardian	1 hour	34.83	VBVG (Bundesministerium der Justiz und fu" r Verbraucherschutz. Gesetz über die Vergütung von Vormündern und Betreuern: VBVG [Law of the remuneration of legal guardians]. 2005.	2005
	Psychiatric assessment		80.00	"Justizvergütungs- und -entschädigungsgesetz vom 5. Mai 2004 (BGBl. I S. 718, 776), das zuletzt durch Artikel 17 des Gesetzes vom 25. Juni 2021 (BGBl. I S. 2154) geändert worden ist" https://www.gesetze-im-internet.de/jveg/BJNR077600004.html	2004/2021
	Night in police cell		282.47	"Besondere Gebührenverordnung BMI vom 2. September 2019 (BGBl. I S. 1359), die zuletzt durch Artikel 1 der Verordnung vom 10. September 2021 (BGBl. I S. 4429) geändert worden ist" https://www.gesetze-im-internet.de/bmibgebv/BJNR135900019.html	2019

e Table 1 continued: Unit cost list for the German Health care system- 23.11.2022					
	Religious practitioner (priest, imam, rabbi, etc.)	1 hour	26.80	Bei einer 41h- Studienwoche www.steuerklassen.com/gehalt/pfarrer	2021
	Group therapy	50 min/ 1 hour	19.64	https://www.kbv.de/html/1150_53605.php	2021

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eTable 2. Mixed effects regression model for the EQ5D index values from baseline to 12 month follow-up

Mixed-effects regression	Number of obs	=	1,083				
Group variable: id	Number of groups	=	400				
	Obs per group:						
	min	=	1				
	avg	=	2.7				
	max	=	3				
	Wald chi2(5)	=	18.49				
Log pseudolikelihood = -24.74589	Prob > chi2	=	0.0024				
(Std. err. adjusted for 10 clusters in siteitt)							

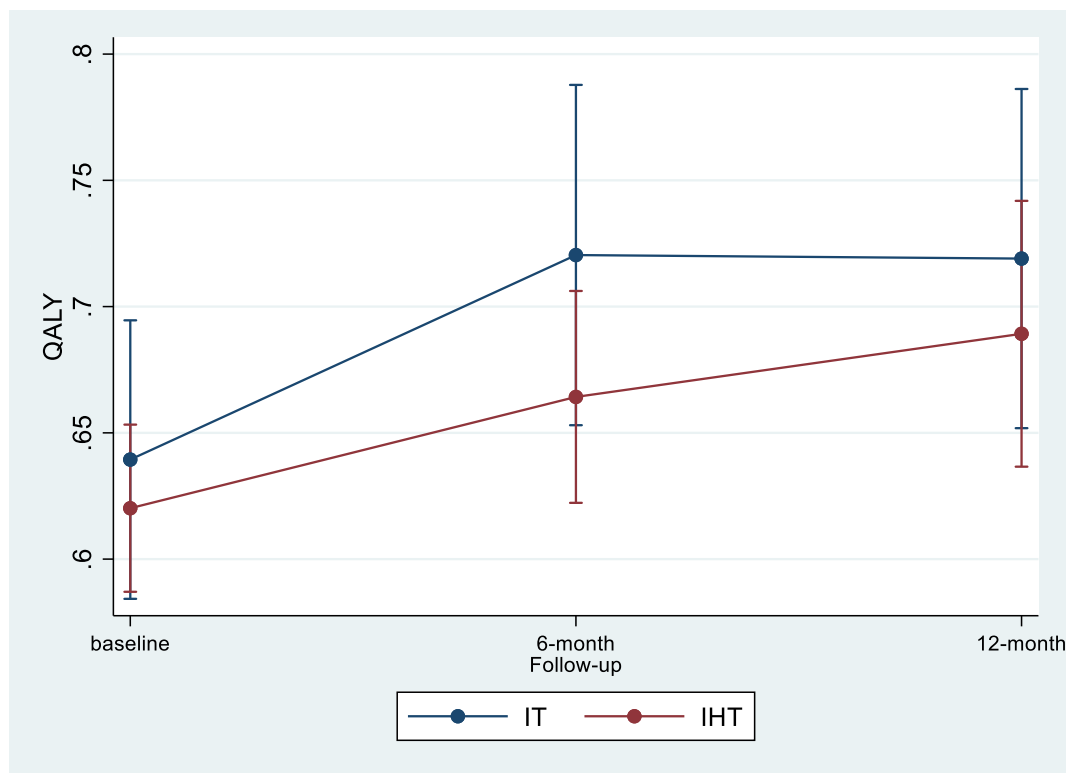
EQindex	Coefficient	Robust std. err.	z	P> z	[95% conf. interval]		

ih							
IHT	-.0192572	.0320667	-0.60	0.548	-.0821068	.0435924	
time							
6-month	.0809977	.0275745	2.94	0.003	.0269528	.1350427	
12-month	.0796001	.0388137	2.05	0.040	.0035266	.1556736	
ih#time							
IHT#6-month	-.0369234	.0302222	-1.22	0.222	-.0961578	.0223109	
IHT#12-month	-.0105244	.0339373	-0.31	0.756	-.0770403	.0559915	
_cons	.639414	.0281366	22.73	0.000	.5842672	.6945607	

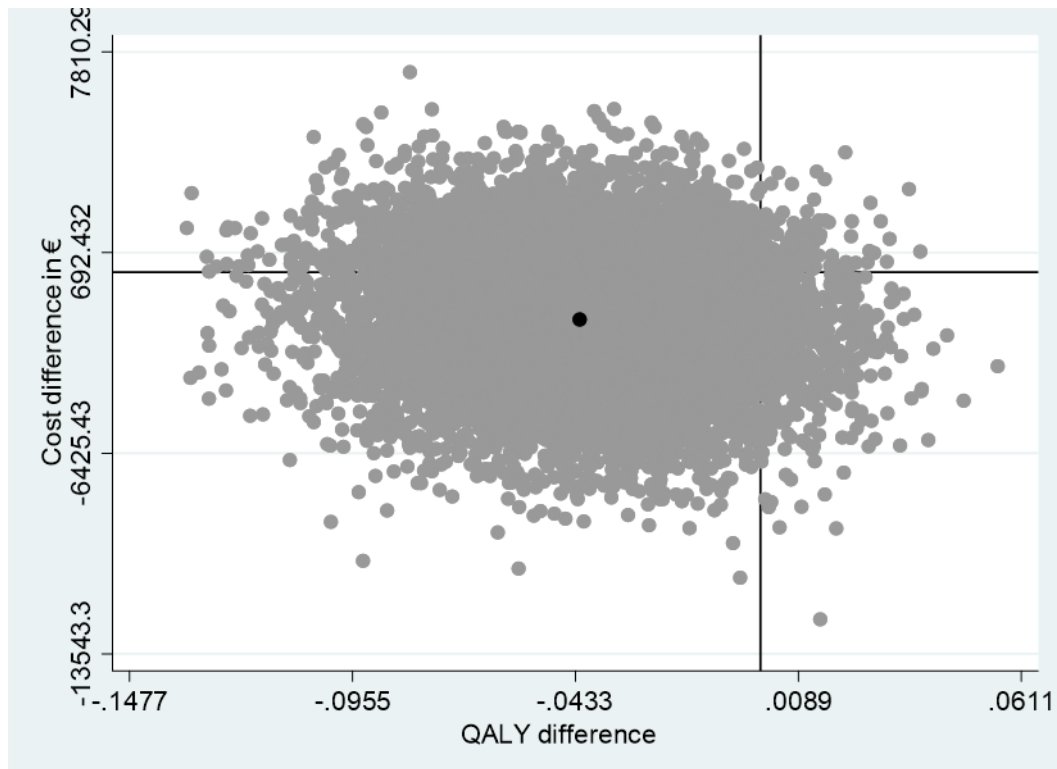
Random-effects parameters	Estimate	Robust std. err.	[95% conf. interval]				

id: Identity							
var(_cons)	.0561909	.0081809	.0422414 .0747469				

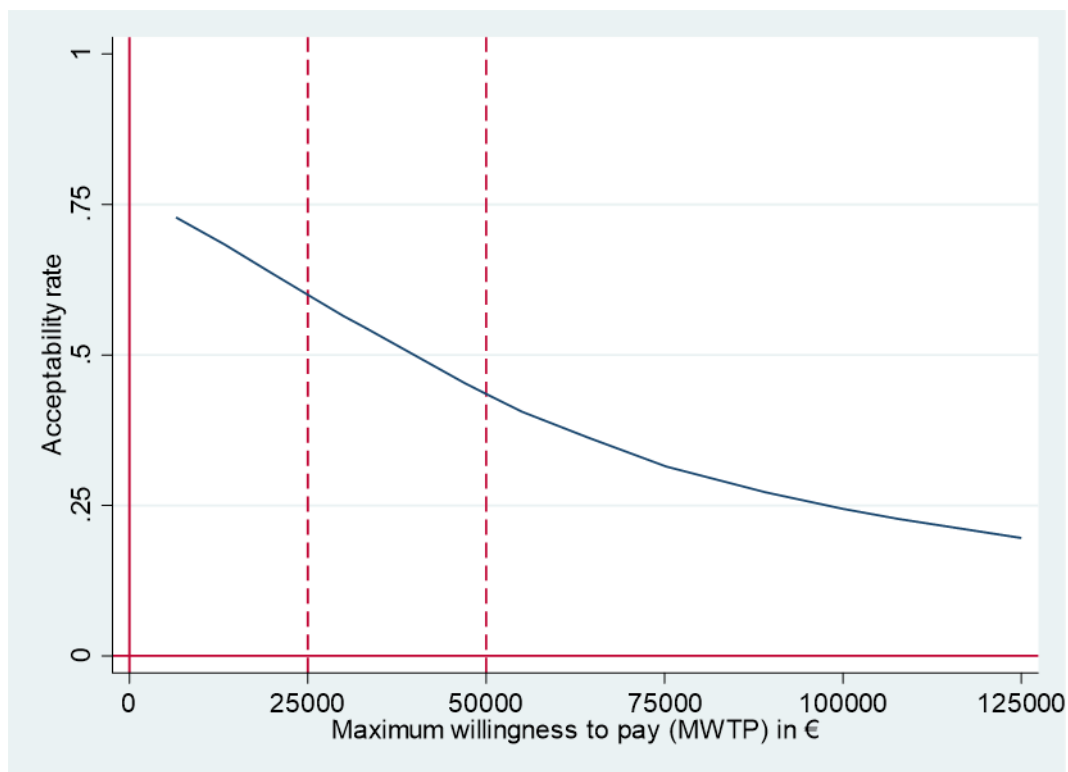
var(Residual)	.0326308	.0039768	.0256975 .0414348				



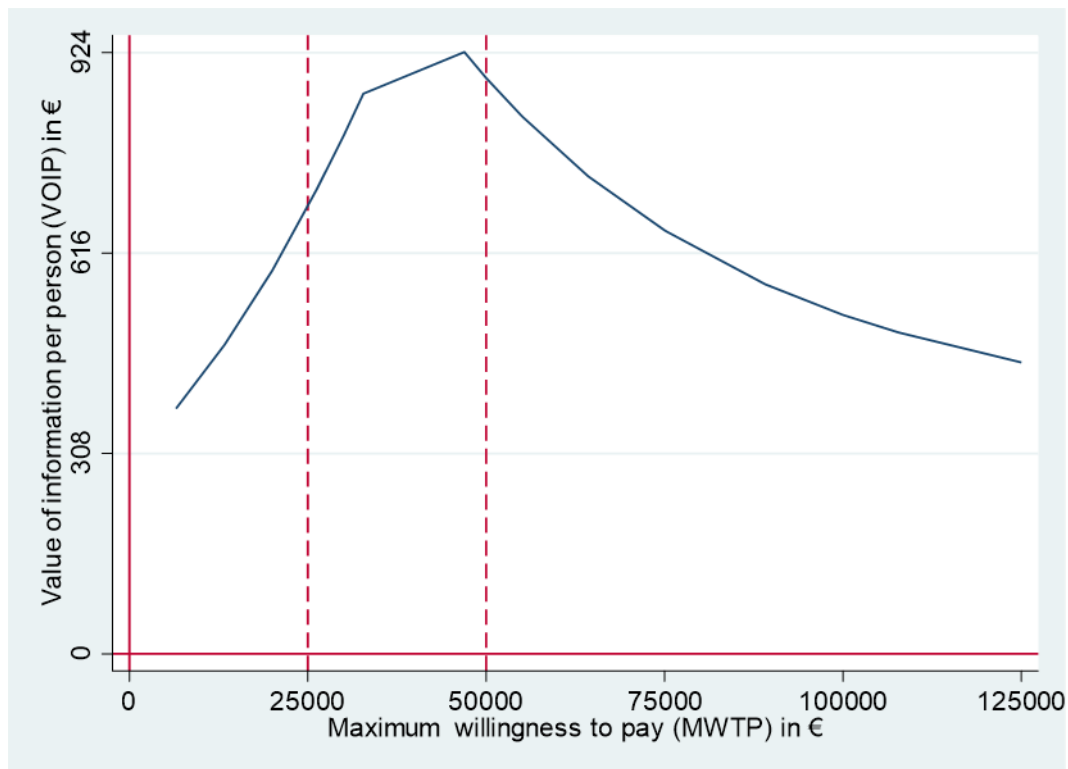
eFigure 1. EQ5D Index values (means and 95 % CI) from baseline to 12-month follow-up



eFigure 2. Variance of the incremental cost utility ratio (ICUR) for the cost-effectiveness of intensive of implementing home-treatment (IHT) vs. inpatient treatment (IT) for people with severe mental illness in acute crisis in the German health care system from the societal perspective. The black dot represents the point estimate of the ICUR, each grey dot represents one of 10,000 ICURs estimated by non-parametric bootstrapping.



eFigure 3. Cost-effectiveness acceptability curve (CEAC) for the cost-effectiveness of intensive of implementing home-treatment (IHT) vs. inpatient treatment (IT) for people with severe mental illness in acute crisis in the German health care system from the societal perspective. The x axis represents the range of maximum willingness to pay (MWTP) threshold values. The dashed red vertical lines represent the MWTP thresholds of 25,000 € and 50,000 € suggested by for the German health care system. The y axis represents the acceptability rates, indicating the probability that IHT treatment would be accepted as cost-effective in comparison to IT in the German health care system. The acceptability curve represents the change of the acceptability rate with increasing MWTP threshold.



eFigure 4. Value of information (VOI) curve for the cost-effectiveness of implementing intensive home-treatment (IHT) vs. inpatient treatment (IT) for people with severe mental illness in acute crisis in the German health care system. The x axis represents the range of maximum willingness to pay in (MWTP) threshold values. The dashed red vertical lines represent the MWTP thresholds of 25,000 € and 50,000 € suggested by for the German health care system. The y axis represents the monetary value of acquiring perfect information per person (VOIP) in the population of potential service users. The curve represents the change of the VOIP with increasing MWTP thresholds.