

Table 1: Descriptive statistics and mixed-effects linear regression for overall SF-LDQOL score by transplantation status and post-transplantation subgroup. Variables modelled as fixed-effects are presented in the table, with repeated questionnaires modelled as a random-effect.

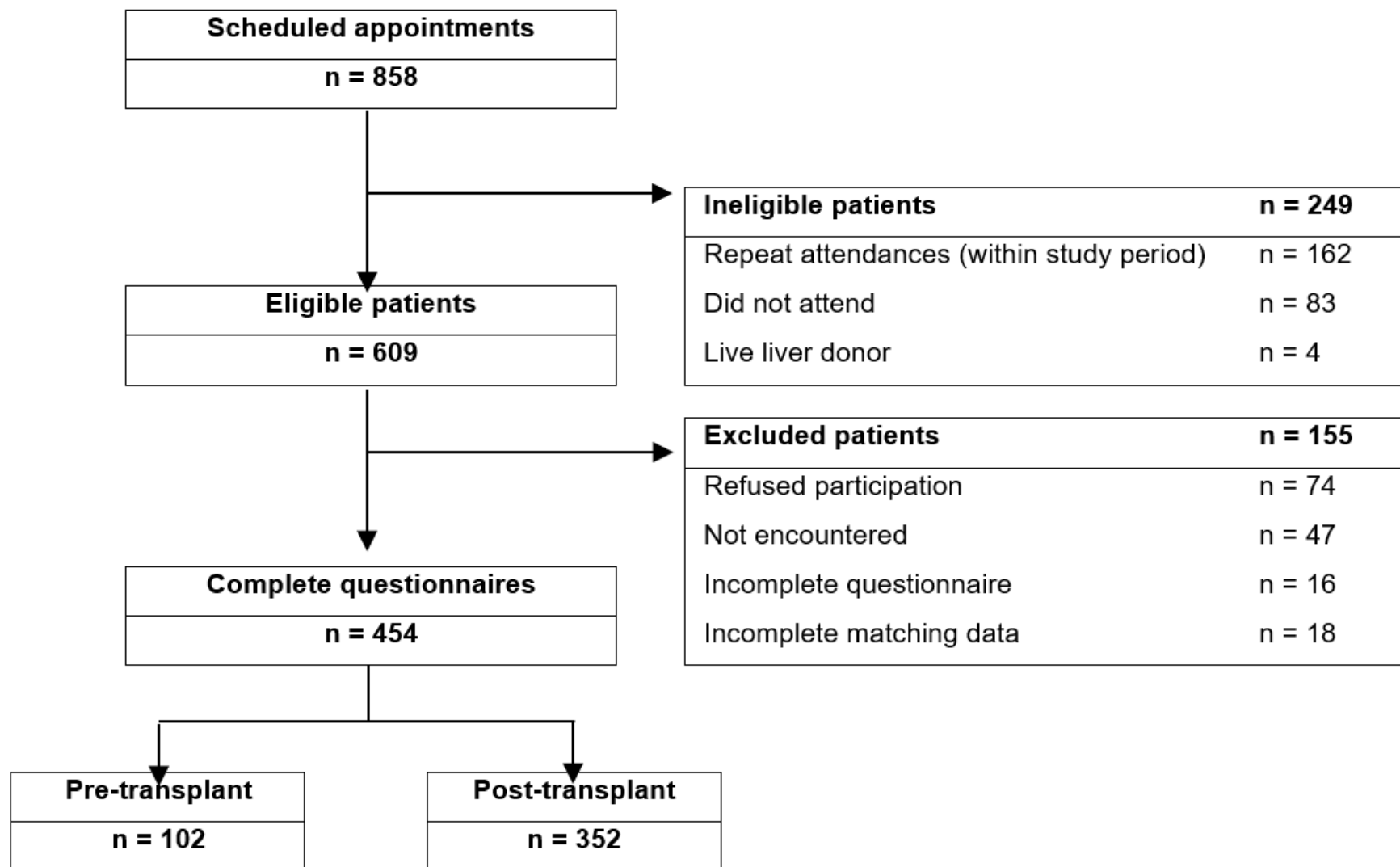
		Overall health-related quality of life score for the SF-LDQOL questionnaire					
		All patients (n=453)			Post-transplantation group (n=352 **)		
		Descriptive Statistics *	β coefficient (95% CI)	p	Descriptive Statistics *	β coefficient (95% CI)	p
Transplantation and HCC Status	Pre-transplantation with no HCC	75 (16.5)	Reference category	-	-	-	-
	Pre-transplantation with HCC	27 (5.9)	12.84 (6.51 to 19.15)	<0.001	-	-	-
	Post-transplantation with no HCC	277 (61.0)	16.84 (13.33 to 20.35)	<0.001	-	-	-
	Post-transplantation with HCC	75 (16.5)	14.19 (9.30 to 19.08)	<0.001	-	-	-
Age (years)	Mean (sd)	55.7 (13.1)	0.18 (0.07 to 0.30)	0.003	56.2 (13.1)	0.18 (0.05 to 0.30)	0.008
Sex	Male	256 (56.4)	Reference category	-	190 (54.0)	Reference category	-
	Female	198 (43.6)	-3.59 (-6.46 to -0.73)	0.016	162 (46.0)	-2.95 (-6.00 to 0.09)	0.064
Ethnicity	Caucasian	431 (94.9)	Reference category	-	335 (95.2)	Reference category	-
	Non-Caucasian	23 (5.1)	-0.55 (-6.86 to 5.76)	0.866	17 (4.8)	-1.64 (-8.88 to 5.60)	0.664
BMI (kg/m ²)	Mean (sd)	27.6 (5.7)	-0.01 (-0.25 to 0.23)	0.915	27.4 (5.5)	-0.16 (-0.42 to 0.11)	0.255
Blood group	O	239 (52.6)	Reference category	-	176 (50.0)	Reference category	-
	Non-O	215 (47.4)	0.15 (-2.62 to 2.92)	0.917	176 (50.0)	0.43 (-2.58 to 3.44)	0.786
Primary liver disease	Other ‡	125 (27.5)	-1.97 (-5.82 to 1.89)	0.323	101 (28.7)	Reference category	-
	Alcoholic	109 (24.0)	-0.49 (-4.32 to 3.35)	0.804	82 (23.3)	-3.57 (-7.79 to 0.67)	0.106
	Cholestatic	102 (22.5)	-2.36 (-7.44 to 2.73)	0.370	81 (23.0)	-1.26 (-5.44 to 2.93)	0.564
	NAFLD	51 (11.2)	-4.45 (-9.09 to 0.18)	0.064	35 (9.9)	-0.99 (-6.75 to 4.77)	0.741
	Viral	67 (14.8)	-1.97 (-5.82 to 1.89)	0.323	53 (15.1)	-4.89 (-10.06 to 0.27)	0.070
HCC status	Present	-	-	-	75 (21.3)	Reference category	-
	Absent	-	-	-	277 (78.7)	2.32 (-1.86 to 6.53)	0.288
MELD score	<10	62 (13.7)	Reference category	-	37 (10.5)	Reference category	-
	10-15	105 (23.1)	0.41 (-4.40 to 5.25)	0.869	78 (22.2)	1.03 (-4.51 to 6.62)	0.722
	15 to 20	100 (22.0)	-0.65 (-4.38 to 3.09)	0.738	78 (22.2)	-1.80 (-5.96 to 2.35)	0.406
	> 20	187 (41.2)	-0.50 (-3.60 to 2.61)	0.754	159 (45.2)	-0.44 (-4.12 to 3.24)	0.818
Time since transplantation	Mean (sd)	-	-	-	4.3 (5.0)	-0.18 (-0.52 to 0.16)	0.307
Re-transplantation Status	First transplant	-	-	-	307 (87.2)	Reference category	-
	Re-transplant	-	-	-	45 (12.8)	-2.88 (-7.45 to 1.68)	0.227
Type of Organ	DBD-organ	-	-	-	300 (85.5)	Reference category	-
	DCD-organ	-	-	-	51 (14.5)	-4.61 (-8.95 to -0.24)	0.043

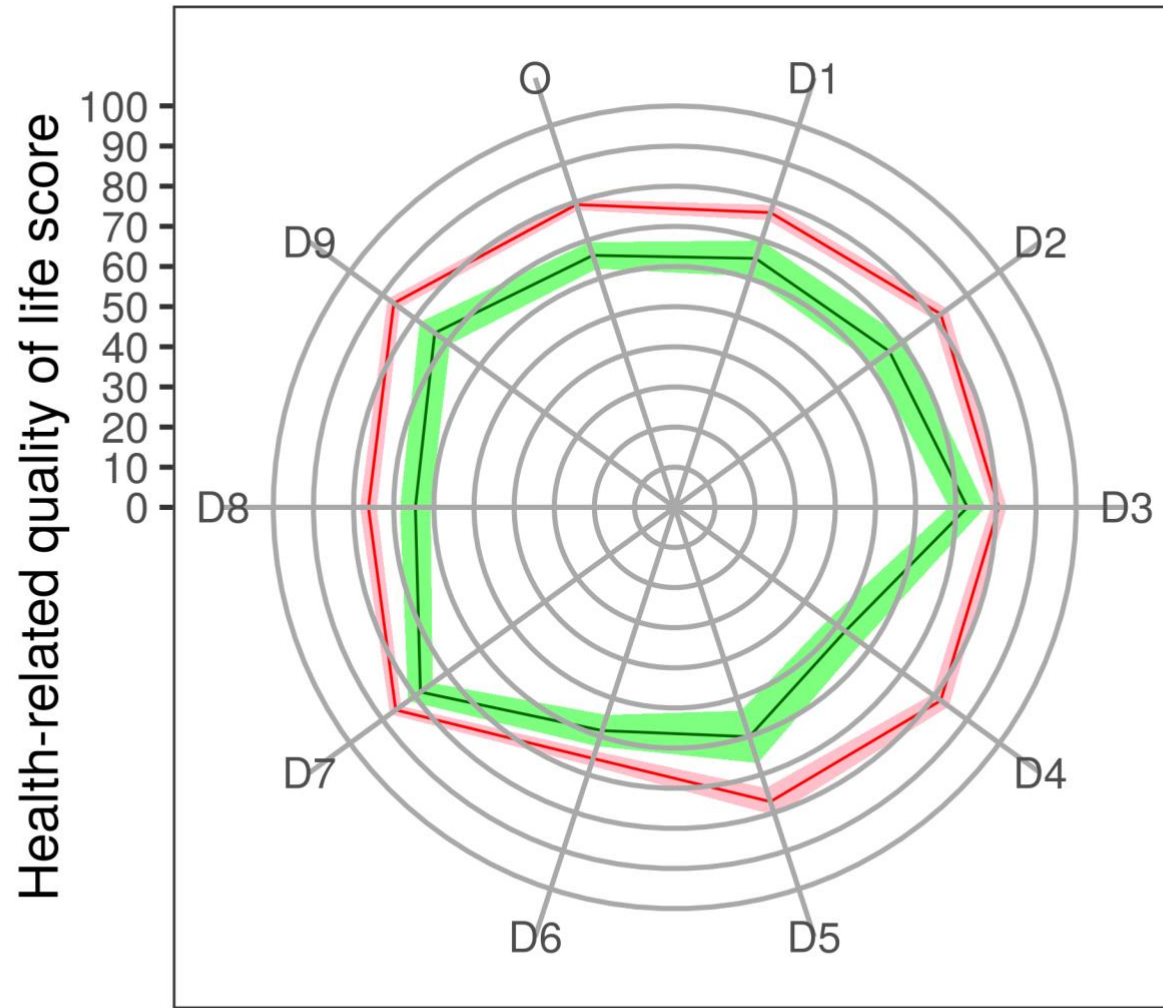
* Values in parentheses are percentages unless indicated otherwise. ** n=1 record excluded due to missing data. ‡ See full list of included conditions in Supplementary Table 1. Abbreviations: BMI = Body mass index, DBD = donation after brain death, DCD = donation after circulatory death, HCC = hepatocellular carcinoma, NAFLD = non-alcoholic fatty liver disease.

Table 2: Balance diagnostics for baseline (pre-transplantation) characteristics of pre- and post-transplantation patients before and after propensity-score matching. Data are n (%) unless otherwise stated.

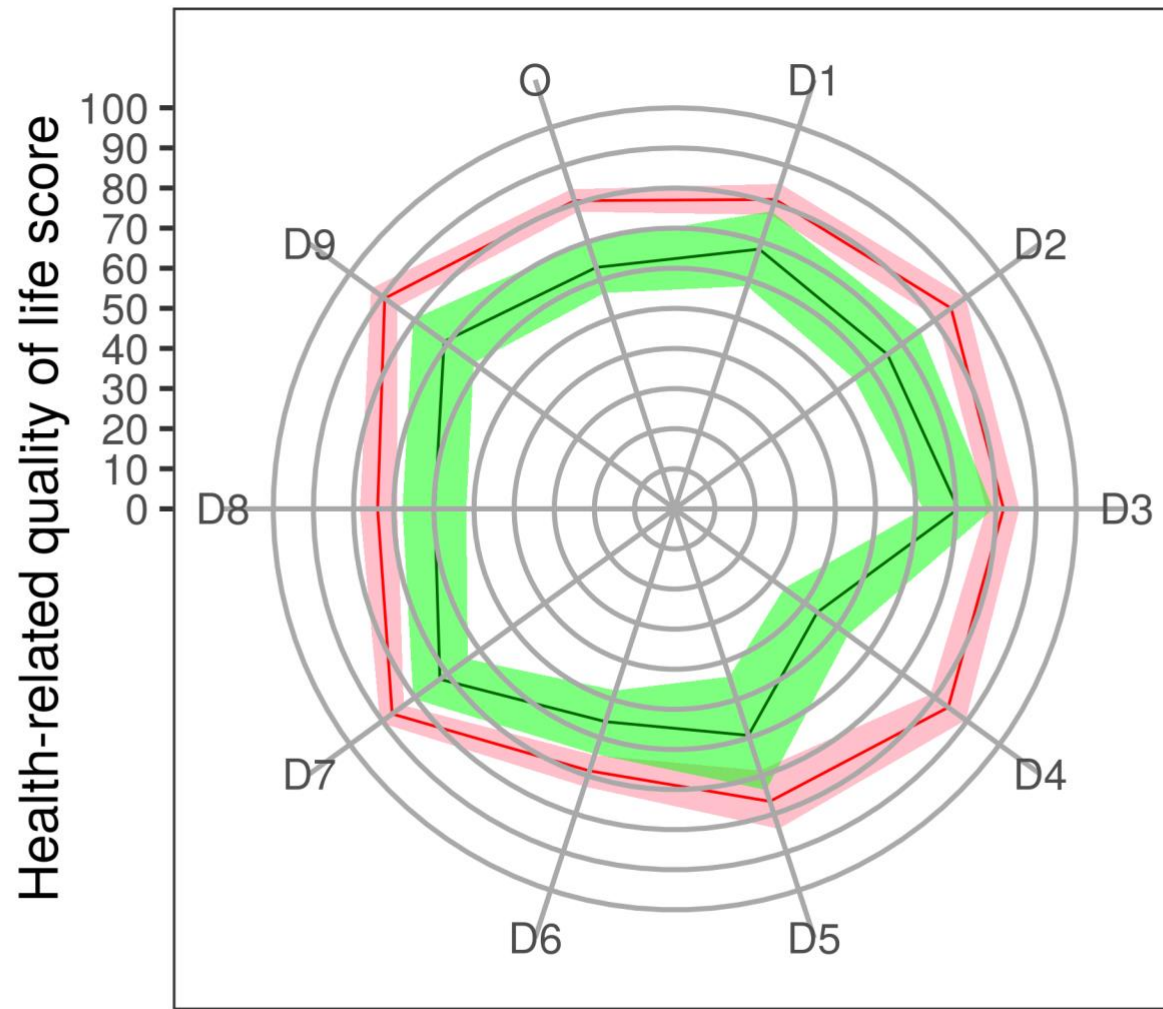
Baseline Characteristics:		Unmatched characteristics			Propensity-score matched characteristics		
		Pre-transplantation (n=99)	Post-transplantation (n=274)	aSMD	Pre-transplantation (n=99)	Post-transplantation (n=274)	aSMD
Age (years)	Mean	54.7	56.3	0.129	53.9	56.3	0.194
Sex	Male	65 (65.7)	148 (54.0)	0.242	55 (55.6)	148 (54.0)	0.024
	Female	34 (34.3)	126 (46.0)		44 (44.4)	126 (46.0)	
Ethnicity	White	93 (93.9)	257 (93.8)	0.011	93 (93.9)	257 (93.8)	0.011
	Other	6 (6.1)	17 (6.2)		6 (6.1)	17 (6.2)	
BMI (kg/m2)	Mean (SD)	28.5	27.2	0.270	26.9	27.2	0.061
Blood group	O	62 (62.6)	141 (51.5)	0.196	45 (45.5)	141 (51.5)	0.167
	Non-O	37 (37.4)	133 (48.5)		54 (54.5)	133 (48.5)	
HCC status	Yes	27 (27.3)	58 (21.2)	0.166	19 (19.2)	58 (21.2)	0.032
	No	72 (72.7)	216 (78.8)		80 (80.8)	216 (78.8)	
MELD Score	<10	22 (22.2)	28 (10.2)	0.506	10 (10.1)	28 (10.2)	0.195
	10-15	29 (29.3)	61 (22.3)		20 (20.2)	61 (22.3)	
	15-20	22 (22.2)	57 (20.8)		21 (21.2)	57 (20.8)	
	>20	26 (26.3)	128 (46.7)		48 (48.5)	128 (46.7)	
Primary Liver Disease	Other *	24 (24.2)	77 (28.1)	0.194	31 (31.3)	77 (28.1)	0.201
	Alcoholic	26 (26.3)	67 (24.5)		29 (29.3)	67 (24.5)	
	Cholestatic	19 (19.2)	57 (20.8)		18 (18.2)	57 (20.8)	
	NAFLD	16 (16.2)	30 (10.9)		10 (10.1)	30 (10.9)	
	Viral	14 (14.1)	43 (15.7)		11 (11.1)	43 (15.7)	

Abbreviations: aSMD = absolute standardised mean difference, BMI = Body Mass Index; MELD = Model of End Stage Liver Disease; HCC = hepatocellular carcinoma; NAFLD = non-alcoholic fatty liver disease. * See full list of included conditions in Supplementary Table 1.

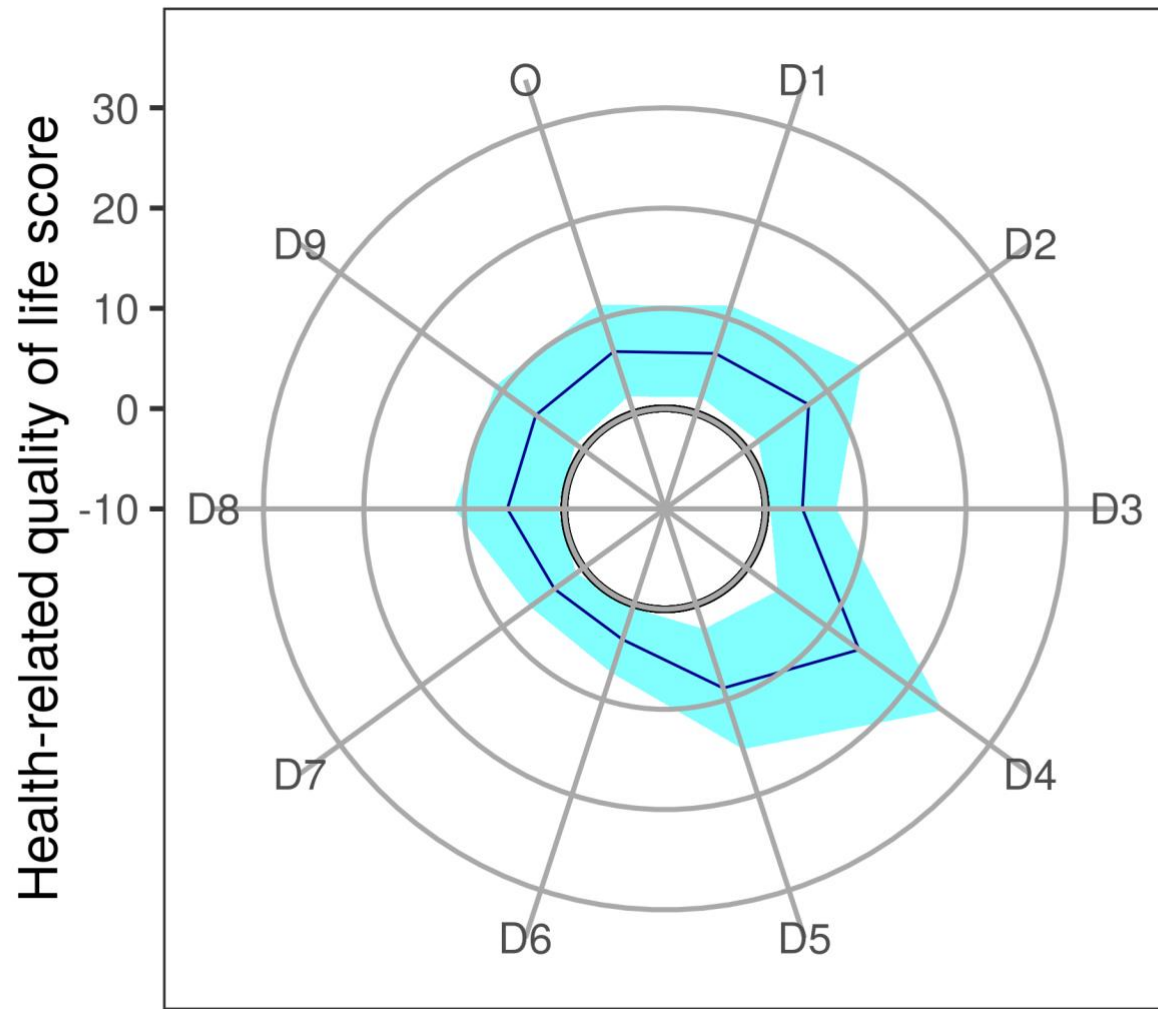




Health-related quality of life domains



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