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Version: Supplemental Material

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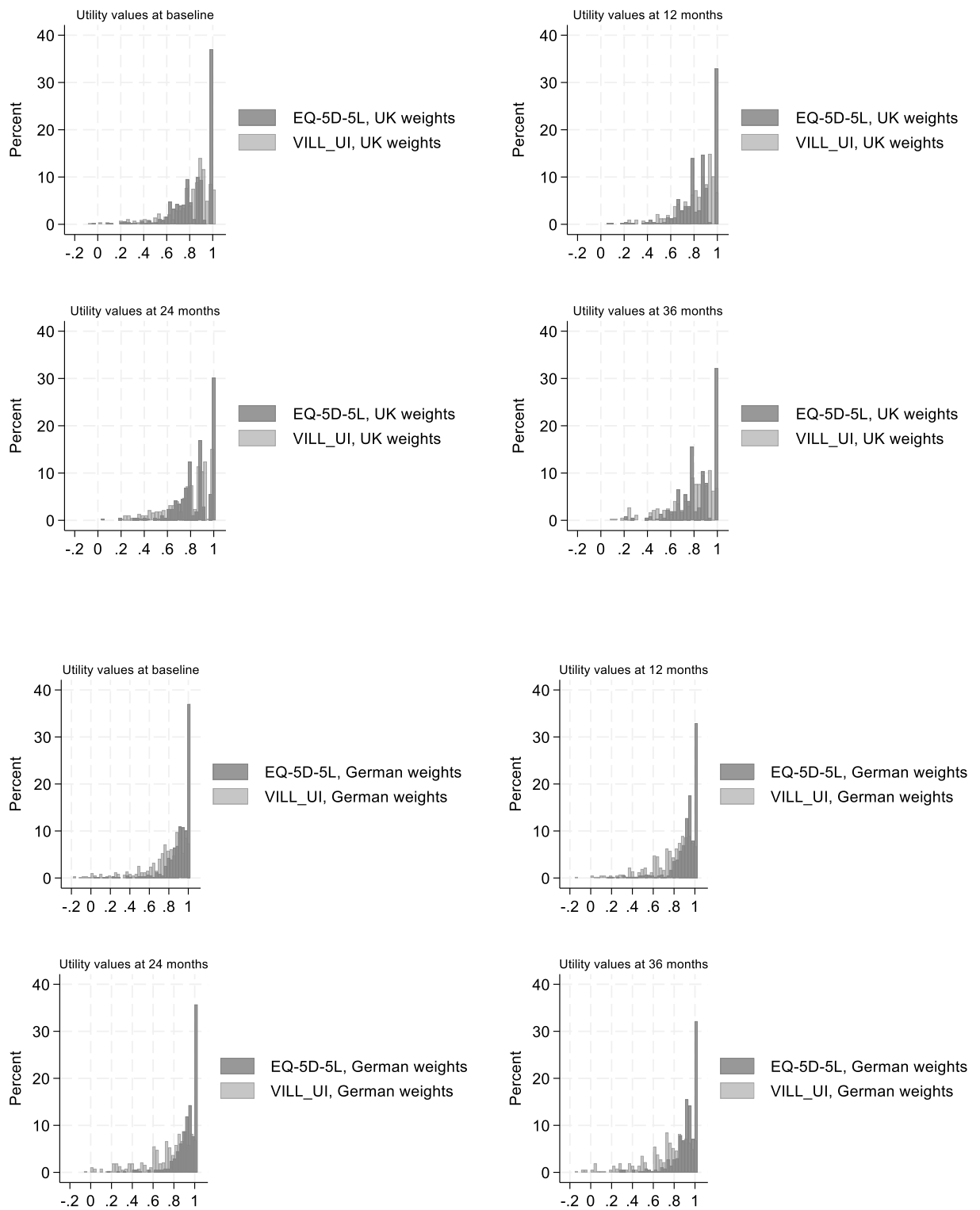
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## Supplementary material

**Figure A1: Distribution of EQ-5D-5L and VILL-UI utilities, by timepoint**



**Table A1: Summary of missing data for VILL-UI and EQ-5D-5L, by timepoint**

	Baseline	12 months	24 months	36 months
N in trial	661	474	428	422
N with VILL-UI utilities	586	425	379	367
N with EQ-5D-5L utilities	661	464	427	422
% unable to generate VILL-UI responses	11.3%	10.3%	11.4%	13.0%
% where VILL-UI is unable to be generated as participant chooses response option “don’t do this for other reasons” for one or more VILL-UI items	11.2%	10.3%	11.2%	12.6%
% with incomplete EQ-5D-5L responses	0%	2.1%	0.2%	0%

**Table A2: EQ-5D-5L responses when patients report best state on VILL-UI, by timepoint**

EQ-5D-5L dimension	Level	Baseline (n=43)		12 months (n=28)		24 months (n=25)		36 months (n=26)	
		n	%	n	%	n	%	n	%
Mobility	1	34	79.1	24	85.7	22	84.6	20	80.0
	2	6	14.0	2	7.1	3	11.5	3	12.0
	3	1	2.3	1	3.6	0	0.0	1	4.0
	4	2	4.7	1	3.6	1	3.9	1	4.0
	5	0	0	0	0	0	0	0	0
Selfcare	1	40	93.0	27	96.4	26	100.0	25	100.0
	2	2	4.7	0	0.0	0	0.0	0	0.0
	3	1	2.3	1	3.6	0	0.0	0	0.0
	4	0	0.0	0	0.0	0	0.0	0	0.0
	5	0	0	0	0.0	0	0.0	0	0.0
Usual activities	1	39	90.7	25	89.3	24	92.3	23	92.0
	2	1	2.3	3	10.7	2	7.7	1	4.0
	3	2	4.7	0	0.0	0	0.0	1	4.0
	4	1	2.3	0	0.0	0	0.0	0	0.0
	5	0	0.0	0	0.0	0	0.0	25	100.0
Pain/discomfort	1	26	60.5	17	60.7	16	61.5	15	60.0
	2	12	27.9	9	32.1	7	26.9	7	28.0
	3	4	9.3	2	7.1	3	11.5	3	12.0
	4	1	2.3	0	0.0	0	0.0	0	0.0
	5	0	0.0	0	0	0	0	0	0
Anxiety/depression	1	30	69.8	23	82.1	23	88.5	22	88.0
	2	13	30.2	3	10.7	2	7.7	3	12.0
	3	0	0.0	2	7.1	1	3.9	0	0.0
	4	0	0.0	0	0.0	0	0.0	0	0.0
	5	0	0.0	0	0.0	0	0.0	0	0.0

Notes: For EQ-5D-5L dimensions: level 1 = none; level 2 = slight; level 3 = moderate; level 4 = severe; level 5 = extreme/unable.

**Table A3: Correlations between VILL-UI and EQ-5D-5L dimensions and utilities, reported at 12 months**

	VILL-UI Information	VILL-UI Reading	VILL-UI Mobility and safety	VILL-UI Emotional wellbeing	VILL-UI utilities, UK weights	VILL-UI utilities, German weights
EQ-5D-5L Mobility	0.19	0.20	0.26	-0.01		
EQ-5D-5L Self-care	0.12	0.14	0.17	0.14		
EQ-5D-5L Usual activities	0.18	0.28	0.24	0.16		
EQ-5D-5L Pain/discomfort	0.21	0.22	0.27	0.05		
EQ-5D-5L Anxiety/ depression	0.09	0.10	0.12	0.23		
EQ-5D-5L utilities, UK weights					0.41	
EQ-5D-5L utilities, German weights						0.41

Notes: Pearson correlation is reported for dimensions and Spearman rank correlation is reported for utilities.

**Table A4: Correlations between VILL-UI and EQ-5D-5L dimensions and utilities, reported at 24 months**

	VILL-UI Information	VILL-UI Reading	VILL-UI Mobility and safety	VILL-UI Emotional wellbeing	VILL-UI utilities, UK weights	VILL-UI utilities, German weights
EQ-5D-5L Mobility	0.23	0.19	0.34	0.05		
EQ-5D-5L Self-care	0.04	0.04	0.14	0.04		
EQ-5D-5L Usual activities	0.26	0.25	0.33	0.13		
EQ-5D-5L Pain/discomfort	0.15	0.15	0.23	0.12		
EQ-5D-5L Anxiety/ depression	0.08	0.04	0.10	0.23		
EQ-5D-5L utilities, UK weights					0.34	
EQ-5D-5L utilities, German weights						0.32

*Notes:* Pearson correlation is reported for dimensions and Spearman rank correlation is reported for utilities.

**Table A5: Correlations between VILL-UI and EQ-5D-5L dimensions and utilities, reported at 36 months**

	VILL-UI Information	VILL-UI Reading	VILL-UI Mobility and safety	VILL-UI Emotional wellbeing	VILL-UI utilities, UK weights	VILL-UI utilities, German weights
EQ-5D-5L Mobility	0.15	0.13	0.20	0.04		
EQ-5D-5L Self-care	0.09	0.07	0.15	0.19		
EQ-5D-5L Usual activities	0.20	0.16	0.26	0.15		
EQ-5D-5L Pain/discomfort	0.11	0.08	0.20	0.11		
EQ-5D-5L Anxiety/ depression	0.14	0.07	0.16	0.29		
EQ-5D-5L utilities, UK weights					0.25	
EQ-5D-5L utilities, German weights						0.21

*Notes:* Pearson correlation is reported for dimensions and Spearman rank correlation is reported for utilities.

**Table A6: Assessing change over time according to AMD stage for sample present in all time periods, by timepoint**

Timepoint	Measure	All (n=241)				Early/Intermediate AMD		Late AMD	
		Mean	Standard deviation	Minimum	Maximum	Mean (SD)	n	Mean (SD)	n
Baseline	VILL-UI, UK weights	0.832	0.142	0.243	1	0.832 (0.142)	241		0
	VILL-UI, German weights	0.790	0.182	0.037	1	0.790 (0.182)			
	EQ-5D-5L, UK weights	0.847	0.152	0.203	0.989	0.847 (0.152)			
	EQ-5D-5L, German weights	0.920	0.112	0.276	1	0.920 (0.112)			
12 months	VILL-UI, UK weights	0.812	0.160	0.080	1	0.814 (0.159)	232	0.774 (0.203)	9
	VILL-UI, German weights	0.770	0.201	-0.153	1	0.772 (0.200)		0.737 (0.250)	
	EQ-5D-5L, UK weights	0.836	0.153	0.203	0.989	0.836 (0.153)		0.830 (0.177)	
	EQ-5D-5L, German weights	0.910	0.125	0.276	1	0.911 (0.123)		0.892 (0.178)	
24 months	VILL-UI, UK weights	0.790	0.178	0.245	1	0.791 (0.174)	222	0.772 (0.215)	19
	VILL-UI, German weights	0.744	0.226	0.007	1	0.746 (0.221)		0.722 (0.284)	
	EQ-5D-5L, UK weights	0.840	0.154	0.189	0.989	0.841 (0.157)		0.828 (0.125)	
	EQ-5D-5L, German weights	0.920	0.107	0.276	1	0.920 (0.110)		0.923 (0.068)	
36 months	VILL-UI, UK weights	0.770	0.193	0.132	1	0.783 (0.183)	209	0.689 (0.236)	32
	VILL-UI, German weights	0.715	0.245	-0.065	1	0.731 (0.232)		0.612 (0.297)	
	EQ-5D-5L, UK weights	0.831	0.152	0.203	0.989	0.831 (0.155)		0.830 (0.139)	
	EQ-5D-5L, German weights	0.912	0.117	0.276	1	0.911 (0.118)		0.915 (0.110)	

*Notes:* The sample size of 241 is comprised of respondents with complete VILL-UI and EQ-5D-5L data at every one of the four timepoints (baseline, 12 months, 24 months and 36 months).