

General Linear Model

Notes		
Output Created		12-JUL-2022 14:38:12
Comments		
Input	Data	S:\Quant\data cleaning\V2\KN\V3\Analysis\Analy sis 27.06.2022\NERS_NS.sav
	Active Dataset	DataSet1
	Filter	(Cohort_Group = 1 Cohort_Group = 2 Cohort_Group = 3) & (status_code_2 = 4 status_code_2 = 6) (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	8313
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax		GLM eq5d_index_init_usual eq5d_index_16wk_usual WITH Age_at_ref2 Gender2 Cohort_Group IMD_Quintile Local_Authority /WSFACTOR=EQ5D_index 2 Simple(1) /METHOD=SSTYPE(3) /EMMEANS=TABLES(EQ5D_inde x) WITH(Age_at_ref2=MEAN Gender2=MEAN Cohort_Group=MEAN IMD_Quintile=MEAN Local_Authority=MEAN)COMPAR E ADJ(BONFERRONI) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDSIGN=EQ5D_index /DESIGN=Age_at_ref2 Gender2 Cohort_Group IMD_Quintile Local_Authority.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.22

Within-Subjects Factors

Measure: MEASURE_1

EQ5D_index	Dependent Variable
1	eq5d_index_init_usual
2	eq5d_index_16wk_usual

Descriptive Statistics

	Mean	Std. Deviation	N
eq5d_index_init_usual	.6831	.22960	5646
eq5d_index_16wk_usual	.7743	.19039	5646

Multivariate Tests ^a							
Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
EQ5D_index	Pillai's Trace	.010	59.025 ^b	1.000	5640.000	<.001	.010
	Wilks' Lambda	.990	59.025 ^b	1.000	5640.000	<.001	.010
	Hotelling's Trace	.010	59.025 ^b	1.000	5640.000	<.001	.010
	Roy's Largest Root	.010	59.025 ^b	1.000	5640.000	<.001	.010
EQ5D_index * Age_at_ref2	Pillai's Trace	.007	37.420 ^b	1.000	5640.000	<.001	.007
	Wilks' Lambda	.993	37.420 ^b	1.000	5640.000	<.001	.007
	Hotelling's Trace	.007	37.420 ^b	1.000	5640.000	<.001	.007
	Roy's Largest Root	.007	37.420 ^b	1.000	5640.000	<.001	.007
EQ5D_index * Gender2	Pillai's Trace	.003	14.872 ^b	1.000	5640.000	<.001	.003
	Wilks' Lambda	.997	14.872 ^b	1.000	5640.000	<.001	.003
	Hotelling's Trace	.003	14.872 ^b	1.000	5640.000	<.001	.003
	Roy's Largest Root	.003	14.872 ^b	1.000	5640.000	<.001	.003
EQ5D_index * Cohort_Group	Pillai's Trace	.000	1.630 ^b	1.000	5640.000	.202	.000
	Wilks' Lambda	1.000	1.630 ^b	1.000	5640.000	.202	.000
	Hotelling's Trace	.000	1.630 ^b	1.000	5640.000	.202	.000
	Roy's Largest Root	.000	1.630 ^b	1.000	5640.000	.202	.000
EQ5D_index * IMD_Quintile	Pillai's Trace	.000	.056 ^b	1.000	5640.000	.813	.000
	Wilks' Lambda	1.000	.056 ^b	1.000	5640.000	.813	.000
	Hotelling's Trace	.000	.056 ^b	1.000	5640.000	.813	.000
	Roy's Largest Root	.000	.056 ^b	1.000	5640.000	.813	.000
EQ5D_index * Local_Authority	Pillai's Trace	.001	5.981 ^b	1.000	5640.000	.014	.001
	Wilks' Lambda	.999	5.981 ^b	1.000	5640.000	.014	.001
	Hotelling's Trace	.001	5.981 ^b	1.000	5640.000	.014	.001
	Roy's Largest Root	.001	5.981 ^b	1.000	5640.000	.014	.001

a. Design: Intercept + Age_at_ref2 + Gender2 + Cohort_Group + IMD_Quintile + Local_Authority

Within Subjects Design: EQ5D_index

b. Exact statistic

Mauchly's Test of Sphericity ^a							
Measure: MEASURE_1							
Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Greenhouse-	Epsilon ^b	Lower-bound
					Geisser	Huynh-Feldt	

EQ5D_index	1.000	.000	0	.	1.000	1.000	1.000
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Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept + Age_at_ref2 + Gender2 + Cohort_Group + IMD_Quintile + Local_Authority

Within Subjects Design: EQ5D_index

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
EQ5D_index	Sphericity Assumed	.920	1	.920	59.025	<.001	.010
	Greenhouse-Geisser	.920	1.000	.920	59.025	<.001	.010
	Huynh-Feldt	.920	1.000	.920	59.025	<.001	.010
	Lower-bound	.920	1.000	.920	59.025	<.001	.010
EQ5D_index * Age_at_ref2	Sphericity Assumed	.583	1	.583	37.420	<.001	.007
	Greenhouse-Geisser	.583	1.000	.583	37.420	<.001	.007
	Huynh-Feldt	.583	1.000	.583	37.420	<.001	.007
	Lower-bound	.583	1.000	.583	37.420	<.001	.007
EQ5D_index * Gender2	Sphericity Assumed	.232	1	.232	14.872	<.001	.003
	Greenhouse-Geisser	.232	1.000	.232	14.872	<.001	.003
	Huynh-Feldt	.232	1.000	.232	14.872	<.001	.003
	Lower-bound	.232	1.000	.232	14.872	<.001	.003
EQ5D_index * Cohort_Group	Sphericity Assumed	.025	1	.025	1.630	.202	.000
	Greenhouse-Geisser	.025	1.000	.025	1.630	.202	.000
	Huynh-Feldt	.025	1.000	.025	1.630	.202	.000
	Lower-bound	.025	1.000	.025	1.630	.202	.000
EQ5D_index * IMD_Quintile	Sphericity Assumed	.001	1	.001	.056	.813	.000
	Greenhouse-Geisser	.001	1.000	.001	.056	.813	.000
	Huynh-Feldt	.001	1.000	.001	.056	.813	.000
	Lower-bound	.001	1.000	.001	.056	.813	.000
EQ5D_index * Local_Authority	Sphericity Assumed	.093	1	.093	5.981	.014	.001
	Greenhouse-Geisser	.093	1.000	.093	5.981	.014	.001
	Huynh-Feldt	.093	1.000	.093	5.981	.014	.001
	Lower-bound	.093	1.000	.093	5.981	.014	.001
Error(EQ5D_index)	Sphericity Assumed	87.879	5640	.016			
	Greenhouse-Geisser	87.879	5640.000	.016			
	Huynh-Feldt	87.879	5640.000	.016			

Lower-bound	87.879	5640.000	.016			
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Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	EQ5D_index	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
EQ5D_index	Level 2 vs. Level 1	1.839	1	1.839	59.025	<.001	.010
EQ5D_index * Age_at_ref2	Level 2 vs. Level 1	1.166	1	1.166	37.420	<.001	.007
EQ5D_index * Gender2	Level 2 vs. Level 1	.463	1	.463	14.872	<.001	.003
EQ5D_index * Cohort_Group	Level 2 vs. Level 1	.051	1	.051	1.630	.202	.000
EQ5D_index * IMD_Quintile	Level 2 vs. Level 1	.002	1	.002	.056	.813	.000
EQ5D_index * Local_Authority	Level 2 vs. Level 1	.186	1	.186	5.981	.014	.001
Error(EQ5D_index)	Level 2 vs. Level 1	175.758	5640	.031			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	79.966	1	79.966	2230.513	.000	.283
Age_at_ref2	.002	1	.002	.062	.804	.000
Gender2	2.363	1	2.363	65.918	<.001	.012
Cohort_Group	.161	1	.161	4.477	.034	.001
IMD_Quintile	1.536	1	1.536	42.842	<.001	.008
Local_Authority	.296	1	.296	8.251	.004	.001
Error	202.200	5640	.036			

Estimated Marginal Means

EQ5D_index

Estimates

Measure: MEASURE_1

EQ5D_index	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	.683 ^a	.003	.677	.689
2	.774 ^a	.003	.769	.779

a. Covariates appearing in the model are evaluated at the following values: Age_at_ref2 = 60.8787, Gender2 = 1.6226, Cohort_Group = 1.4189, IMD_Quintile = 3.1729, Local_Authority = 9.82855.

Pairwise Comparisons

Measure: MEASURE_1

(I) EQ5D_index	(J) EQ5D_index	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-.091 [*]	.002	<.001	-.096	-.087
2	1	.091 [*]	.002	<.001	.087	.096

Based on estimated marginal means
*. The mean difference is significant at the .05 level.
b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.211	1506.329 ^a	1.000	5640.000	<.001	.211
Wilks' lambda	.789	1506.329 ^a	1.000	5640.000	<.001	.211
Hotelling's trace	.267	1506.329 ^a	1.000	5640.000	<.001	.211
Roy's largest root	.267	1506.329 ^a	1.000	5640.000	<.001	.211

Each F tests the multivariate effect of EQ5D_index. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.
a. Exact statistic