

Mixed Model Analysis

Notes		
Output Created		30-JUN-2022 15:56:52
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	MIXED eq5d_index_16wk_usual
	WITH Age_at_ref2 Gender2
	Cohort_Dummy2 Cohort_Dummy3
	IMD_Quintile2_dummy
	IMD_Quintile3_dummy
	IMD_Quintile4_dummy
	IMD_Quintile5_dummy
	Pathway_5_dummy_generic_level
	4
	Pathway_5_dummy_generic_back
	Pathway_5_dummy_generic_MH
	Pathway_5_dummy_generic_weig
	ht eq5d_index_init_usual
	/CRITERIA=DFMETHOD(SATTER
	THWAITE) CIN(95) MXITER(100)
	MXSTEP(10) SCORING(1)
	SINGULAR(0.000000000001)
	HCONVERGE(0, ABSOLUTE)
	LCONVERGE(0, ABSOLUTE)
	PCONVERGE(0.000001,
	ABSOLUTE)
	/FIXED=Age_at_ref2 Gender2
	Cohort_Dummy2 Cohort_Dummy3
	IMD_Quintile2_dummy
	IMD_Quintile3_dummy
	IMD_Quintile4_dummy
	IMD_Quintile5_dummy
	Pathway_5_dummy_generic_level
	4
	Pathway_5_dummy_generic_back
	Pathway_5_dummy_generic_MH
	Pathway_5_dummy_generic_weig
	ht eq5d_index_init_usual
	SSTYPE(3)
	/METHOD=ML

		/PRINT=G SOLUTION TESTCOV /RANDOM=INTERCEPT   SUBJECT(Local_Authority) COVTYPE(VC).
Resources	Processor Time	00:00:00.27
	Elapsed Time	00:00:00.25

Model Dimension <sup>a</sup>					
		Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
Fixed Effects	Intercept	1		1	
	Age_at_ref2	1		1	
	Gender2	1		1	
	Cohort_Dummy2	1		1	
	Cohort_Dummy3	1		1	
	IMD_Quintile2_dummy	1		1	
	IMD_Quintile3_dummy	1		1	
	IMD_Quintile4_dummy	1		1	
	IMD_Quintile5_dummy	1		1	
	Pathway_5_dummy_generic_level 4	1		1	
	Pathway_5_dummy_generic_back	1		1	
	Pathway_5_dummy_generic_MH	1		1	
	Pathway_5_dummy_generic_weigh t	1		1	
	eq5d_index_init_usual	1		1	
Random Effects	Intercept <sup>b</sup>	1	Variance Components	1	Local_Authority
Residual				1	
Total		15		16	

- a. Dependent Variable: eq5d\_index\_16wk\_usual.
- b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria<sup>a</sup>

-2 Log Likelihood	-6149.958
Akaike's Information Criterion (AIC)	-6117.958
Hurvich and Tsai's Criterion (AICC)	-6117.861
Bozdogan's Criterion (CAIC)	-5995.739
Schwarz's Bayesian Criterion (BIC)	-6011.739

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: eq5d\_index\_16wk\_usual.

Fixed Effects

Type III Tests of Fixed Effects <sup>a</sup>				
Source	Numerator df	Denominator df	F	Sig.
Intercept	1	266.359	896.131	<.001
Age_at_ref2	1	5641.821	34.807	<.001
Gender2	1	5629.380	1.419	.234
Cohort_Dummy2	1	5611.401	4.551	.033
Cohort_Dummy3	1	5643.724	.265	.607
IMD_Quintile2_dummy	1	5641.924	.378	.539
IMD_Quintile3_dummy	1	5634.794	.189	.664
IMD_Quintile4_dummy	1	5633.105	6.259	.012
IMD_Quintile5_dummy	1	5642.291	5.638	.018
Pathway_5_dummy_generic_level4	1	5640.714	4.361	.037
Pathway_5_dummy_generic_back	1	5642.305	6.064	.014
Pathway_5_dummy_generic_MH	1	5633.256	3.105	.078
Pathway_5_dummy_generic_weight	1	5643.627	2.205	.138
eq5d_index_init_usual	1	5640.563	4241.632	.000

a. Dependent Variable: eq5d\_index\_16wk\_usual.

Estimates of Fixed Effects<sup>a</sup>

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	.460115	.015370	266.359	29.935	<.001	.429852	.490378
Age_at_ref2	-.000798	.000135	5641.821	-5.900	<.001	-.001063	-.000533
Gender2	-.004662	.003914	5629.380	-1.191	.234	-.012335	.003011
Cohort_Dummy2	-.009495	.004451	5611.401	-2.133	.033	-.018220	-.000769
Cohort_Dummy3	-.003897	.007576	5643.724	-.514	.607	-.018749	.010956
IMD_Quintile2_dummy	.004067	.006618	5641.924	.615	.539	-.008906	.017040
IMD_Quintile3_dummy	.002862	.006590	5634.794	.434	.664	-.010056	.015781
IMD_Quintile4_dummy	.016362	.006540	5633.105	2.502	.012	.003541	.029184
IMD_Quintile5_dummy	.015552	.006550	5642.291	2.374	.018	.002712	.028393
Pathway_5_dummy_generic_level4	-.010589	.005071	5640.714	-2.088	.037	-.020529	-.000648
Pathway_5_dummy_generic_back	-.025697	.010435	5642.305	-2.463	.014	-.046154	-.005241
Pathway_5_dummy_generic_MH	-.015390	.008734	5633.256	-1.762	.078	-.032512	.001731
Pathway_5_dummy_generic_weight	-.008762	.005900	5643.627	-1.485	.138	-.020329	.002805
eq5d_index_init_usual	.546301	.008388	5640.563	65.128	.000	.529857	.562745

a. Dependent Variable: eq5d\_index\_16wk\_usual.

Covariance Parameters

Estimates of Covariance Parameters <sup>a</sup>						
Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Residual	.019492	.000368	53.018	.000	.018784	.020226
Intercept [subject = Local_Authority]	Variance .001284	.000439	2.926	.003	.000657	.002508

a. Dependent Variable: eq5d\_index\_16wk\_usual.

Random Effect Covariance Structure (G) <sup>a</sup>	
Intercept	
Local_Authority	

Intercept   Local_Authority	.001284
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Variance Components

a. Dependent Variable: eq5d\_index\_16wk\_usual.