

Mixed Model Analysis

Notes		
Output Created		17-FEB-2023 14:13:06
Comments		
Input	Data	S:\Quant\data cleaning & analysis\V2\KN\V3\Analysis\FINAL Analysis 27.06.2022 - used in paper\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	<div>MIXED Milli_QALY WITH</div> <div>Age_at_ref2 Gender2</div> <div>Cohort_Dummy2 Cohort_Dummy3</div> <div>IMD_Quintile2_dummy</div> <div>IMD_Quintile3_dummy</div> <div>IMD_Quintile4_dummy</div> <div>IMD_Quintile5_dummy</div> <div>Pathway_5_dummy_generic_level4</div> <div>Pathway_5_dummy_generic_back</div> <div>Pathway_5_dummy_generic_MH</div> <div>Pathway_5_dummy_generic_weight eq5d_index_init_usual</div> <div>/CRITERIA=DFMETHOD(SATTERTHWAITE) 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_level4 Pathway_5_dummy_generic_back Pathway_5_dummy_generic_MH Pathway_5_dummy_generic_weight eq5d_index_init_usual SSTYPE(3) /METHOD=ML</div>
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		/PRINT=G SOLUTION TESTCOV /RANDOM=INTERCEPT SUBJECT(Local_Authority) COVTYPE(VC).
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.25

Model Dimension ^a					
		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 ^b	1	Variance Components	1	Local_Authority
Residual				1	
Total		15		16	

- a. Dependent Variable: Milli_QALY.
- 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^a

-2 Log Likelihood	50685.045
Akaike's Information Criterion (AIC)	50717.045
Hurvich and Tsai's Criterion (AICC)	50717.142
Bozdogan's Criterion (CAIC)	50839.264
Schwarz's Bayesian Criterion (BIC)	50823.264

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

a. Dependent Variable: Milli_QALY.

Fixed Effects

Type III Tests of Fixed Effects ^a				
Source	Numerator df	Denominator df	F	Sig.
Intercept	1	266.358	896.131	<.001
Age_at_ref2	1	5641.821	34.807	<.001
Gender2	1	5629.380	1.419	.234
Cohort_Dummy2	1	5611.400	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	5633.104	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	33982.622	.000

a. Dependent Variable: Milli_QALY.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	70.593003	2.358175	266.358	29.935	<.001	65.949969	75.236038
Age_at_ref2	-.122389	.020745	5641.821	-5.900	<.001	-.163057	-.081721
Gender2	-.715290	.600523	5629.380	-1.191	.234	-1.892547	.461966
Cohort_Dummy2	-1.456747	.682873	5611.400	-2.133	.033	-2.795442	-.118053
Cohort_Dummy3	-.597840	1.162392	5643.724	-.514	.607	-2.876575	1.680896
IMD_Quintile2_dummy	.624001	1.015317	5641.924	.615	.539	-1.366410	2.614412
IMD_Quintile3_dummy	.439162	1.011007	5634.794	.434	.664	-1.542801	2.421124
IMD_Quintile4_dummy	2.510389	1.003428	5633.104	2.502	.012	.543284	4.477495
IMD_Quintile5_dummy	2.386109	1.004933	5642.291	2.374	.018	.416054	4.356163
Pathway_5_dummy_generic_level4	-1.624594	.777962	5640.714	-2.088	.037	-3.149699	-.099488
Pathway_5_dummy_generic_back	-3.942615	1.600990	5642.305	-2.463	.014	-7.081172	-.804059
Pathway_5_dummy_generic_MH	-2.361255	1.339982	5633.256	-1.762	.078	-4.988135	.265625
Pathway_5_dummy_generic_weight	-1.344254	.905260	5643.627	-1.485	.138	-3.118911	.430404
eq5d_index_init_usual	237.240735	1.286947	5640.563	184.344	.000	234.717823	239.763647

a. Dependent Variable: Milli_QALY.

Covariance Parameters

Estimates of Covariance Parameters ^a						
Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Residual	458.815082	8.653925	53.018	.000	442.163386	476.093874
Intercept [subject = Local_Authority]	Variance 30.214888	10.326109	2.926	.003	15.463865	59.036955

a. Dependent Variable: Milli_QALY.

Random Effect Covariance Structure (G) ^a	
Intercept	
Local_Authority	

Intercept Local_Authority	30.214888
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Variance Components

a. Dependent Variable: Milli_QALY.