\* Encoding: UTF-8.

\*Select those who have completed programme and in one of our 3 cohort groups.

USE ALL.

COMPUTE filter\_$=((Cohort\_Group = 1 | Cohort\_Group = 2 | Cohort\_Group = 3) & (status\_code\_2 = 4 |

status\_code\_2 = 6)).

VARIABLE LABELS filter\_$ '(Cohort\_Group = 1 | Cohort\_Group = 2 | Cohort\_Group = 3) & '+

'(status\_code\_2 = 4 | status\_code\_2 = 6) (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

GLM Spaq\_leisure\_total\_init\_transformed Spaq\_leisure\_total\_16wk\_transformed WITH Age\_at\_ref2

Gender2 Cohort\_Group IMD\_Quintile Local\_Authority

/WSFACTOR=SPAQ 2 Simple(1)

/METHOD=SSTYPE(3)

/EMMEANS=TABLES(SPAQ) WITH(Age\_at\_ref2=MEAN Gender2=MEAN Cohort\_Group=MEAN IMD\_Quintile=MEAN

Local\_Authority=MEAN)COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ

/CRITERIA=ALPHA(.05)

/WSDESIGN=SPAQ

/DESIGN=Age\_at\_ref2 Gender2 Cohort\_Group IMD\_Quintile Local\_Authority.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 12-JUL-2022 14:32:24 |
| Comments | |  |
| Input | Data | S:\Quant\data cleaning\V2\KN\V3\Analysis\Analysis 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 Spaq\_leisure\_total\_init\_transformed Spaq\_leisure\_total\_16wk\_transformed WITH Age\_at\_ref2  Gender2 Cohort\_Group IMD\_Quintile Local\_Authority  /WSFACTOR=SPAQ 2 Simple(1)  /METHOD=SSTYPE(3)  /EMMEANS=TABLES(SPAQ) WITH(Age\_at\_ref2=MEAN Gender2=MEAN Cohort\_Group=MEAN IMD\_Quintile=MEAN  Local\_Authority=MEAN)COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ  /CRITERIA=ALPHA(.05)  /WSDESIGN=SPAQ  /DESIGN=Age\_at\_ref2 Gender2 Cohort\_Group IMD\_Quintile Local\_Authority. |
| Resources | Processor Time | 00:00:00.20 |
| Elapsed Time | 00:00:00.20 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| SPAQ | Dependent Variable |
| 1 | Spaq\_leisure\_total\_init\_transformed |
| 2 | Spaq\_leisure\_total\_16wk\_transformed |

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| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| Spaq\_leisure\_total\_init\_transformed | 2.4772 | .46424 | 4294 |
| Spaq\_leisure\_total\_16wk\_transformed | 2.6739 | .36549 | 4294 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |
| SPAQ | Pillai's Trace | .009 | 37.168b | 1.000 | 4288.000 | <.001 | .009 |
| Wilks' Lambda | .991 | 37.168b | 1.000 | 4288.000 | <.001 | .009 |
| Hotelling's Trace | .009 | 37.168b | 1.000 | 4288.000 | <.001 | .009 |
| Roy's Largest Root | .009 | 37.168b | 1.000 | 4288.000 | <.001 | .009 |
| SPAQ \* Age\_at\_ref2 | Pillai's Trace | .001 | 6.133b | 1.000 | 4288.000 | .013 | .001 |
| Wilks' Lambda | .999 | 6.133b | 1.000 | 4288.000 | .013 | .001 |
| Hotelling's Trace | .001 | 6.133b | 1.000 | 4288.000 | .013 | .001 |
| Roy's Largest Root | .001 | 6.133b | 1.000 | 4288.000 | .013 | .001 |
| SPAQ \* Gender2 | Pillai's Trace | .000 | .106b | 1.000 | 4288.000 | .745 | .000 |
| Wilks' Lambda | 1.000 | .106b | 1.000 | 4288.000 | .745 | .000 |
| Hotelling's Trace | .000 | .106b | 1.000 | 4288.000 | .745 | .000 |
| Roy's Largest Root | .000 | .106b | 1.000 | 4288.000 | .745 | .000 |
| SPAQ \* Cohort\_Group | Pillai's Trace | .000 | 1.407b | 1.000 | 4288.000 | .236 | .000 |
| Wilks' Lambda | 1.000 | 1.407b | 1.000 | 4288.000 | .236 | .000 |
| Hotelling's Trace | .000 | 1.407b | 1.000 | 4288.000 | .236 | .000 |
| Roy's Largest Root | .000 | 1.407b | 1.000 | 4288.000 | .236 | .000 |
| SPAQ \* IMD\_Quintile | Pillai's Trace | .001 | 3.171b | 1.000 | 4288.000 | .075 | .001 |
| Wilks' Lambda | .999 | 3.171b | 1.000 | 4288.000 | .075 | .001 |
| Hotelling's Trace | .001 | 3.171b | 1.000 | 4288.000 | .075 | .001 |
| Roy's Largest Root | .001 | 3.171b | 1.000 | 4288.000 | .075 | .001 |
| SPAQ \* Local\_Authority | Pillai's Trace | .000 | 1.192b | 1.000 | 4288.000 | .275 | .000 |
| Wilks' Lambda | 1.000 | 1.192b | 1.000 | 4288.000 | .275 | .000 |
| Hotelling's Trace | .000 | 1.192b | 1.000 | 4288.000 | .275 | .000 |
| Roy's Largest Root | .000 | 1.192b | 1.000 | 4288.000 | .275 | .000 |
| a. Design: Intercept + Age\_at\_ref2 + Gender2 + Cohort\_Group + IMD\_Quintile + Local\_Authority  Within Subjects Design: SPAQ | | | | | | | |
| b. Exact statistic | | | | | | | |

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| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb | | |
| Greenhouse-Geisser | Huynh-Feldt | Lower-bound |
| SPAQ | 1.000 | .000 | 0 | . | 1.000 | 1.000 | 1.000 |
| 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: SPAQ | | | | | | | |
| 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. | | | | | | | |

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| **Tests of Within-Subjects Effects** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
| SPAQ | Sphericity Assumed | 2.490 | 1 | 2.490 | 37.168 | <.001 | .009 |
| Greenhouse-Geisser | 2.490 | 1.000 | 2.490 | 37.168 | <.001 | .009 |
| Huynh-Feldt | 2.490 | 1.000 | 2.490 | 37.168 | <.001 | .009 |
| Lower-bound | 2.490 | 1.000 | 2.490 | 37.168 | <.001 | .009 |
| SPAQ \* Age\_at\_ref2 | Sphericity Assumed | .411 | 1 | .411 | 6.133 | .013 | .001 |
| Greenhouse-Geisser | .411 | 1.000 | .411 | 6.133 | .013 | .001 |
| Huynh-Feldt | .411 | 1.000 | .411 | 6.133 | .013 | .001 |
| Lower-bound | .411 | 1.000 | .411 | 6.133 | .013 | .001 |
| SPAQ \* Gender2 | Sphericity Assumed | .007 | 1 | .007 | .106 | .745 | .000 |
| Greenhouse-Geisser | .007 | 1.000 | .007 | .106 | .745 | .000 |
| Huynh-Feldt | .007 | 1.000 | .007 | .106 | .745 | .000 |
| Lower-bound | .007 | 1.000 | .007 | .106 | .745 | .000 |
| SPAQ \* Cohort\_Group | Sphericity Assumed | .094 | 1 | .094 | 1.407 | .236 | .000 |
| Greenhouse-Geisser | .094 | 1.000 | .094 | 1.407 | .236 | .000 |
| Huynh-Feldt | .094 | 1.000 | .094 | 1.407 | .236 | .000 |
| Lower-bound | .094 | 1.000 | .094 | 1.407 | .236 | .000 |
| SPAQ \* IMD\_Quintile | Sphericity Assumed | .212 | 1 | .212 | 3.171 | .075 | .001 |
| Greenhouse-Geisser | .212 | 1.000 | .212 | 3.171 | .075 | .001 |
| Huynh-Feldt | .212 | 1.000 | .212 | 3.171 | .075 | .001 |
| Lower-bound | .212 | 1.000 | .212 | 3.171 | .075 | .001 |
| SPAQ \* Local\_Authority | Sphericity Assumed | .080 | 1 | .080 | 1.192 | .275 | .000 |
| Greenhouse-Geisser | .080 | 1.000 | .080 | 1.192 | .275 | .000 |
| Huynh-Feldt | .080 | 1.000 | .080 | 1.192 | .275 | .000 |
| Lower-bound | .080 | 1.000 | .080 | 1.192 | .275 | .000 |
| Error(SPAQ) | Sphericity Assumed | 287.302 | 4288 | .067 |  |  |  |
| Greenhouse-Geisser | 287.302 | 4288.000 | .067 |  |  |  |
| Huynh-Feldt | 287.302 | 4288.000 | .067 |  |  |  |
| Lower-bound | 287.302 | 4288.000 | .067 |  |  |  |

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| **Tests of Within-Subjects Contrasts** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Source | SPAQ | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
| SPAQ | Level 2 vs. Level 1 | 4.981 | 1 | 4.981 | 37.168 | <.001 | .009 |
| SPAQ \* Age\_at\_ref2 | Level 2 vs. Level 1 | .822 | 1 | .822 | 6.133 | .013 | .001 |
| SPAQ \* Gender2 | Level 2 vs. Level 1 | .014 | 1 | .014 | .106 | .745 | .000 |
| SPAQ \* Cohort\_Group | Level 2 vs. Level 1 | .188 | 1 | .188 | 1.407 | .236 | .000 |
| SPAQ \* IMD\_Quintile | Level 2 vs. Level 1 | .425 | 1 | .425 | 3.171 | .075 | .001 |
| SPAQ \* Local\_Authority | Level 2 vs. Level 1 | .160 | 1 | .160 | 1.192 | .275 | .000 |
| Error(SPAQ) | Level 2 vs. Level 1 | 574.605 | 4288 | .134 |  |  |  |

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| **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 | 754.033 | 1 | 754.033 | 5383.883 | .000 | .557 |
| Age\_at\_ref2 | .749 | 1 | .749 | 5.348 | .021 | .001 |
| Gender2 | .279 | 1 | .279 | 1.994 | .158 | .000 |
| Cohort\_Group | 2.171 | 1 | 2.171 | 15.504 | <.001 | .004 |
| IMD\_Quintile | .339 | 1 | .339 | 2.417 | .120 | .001 |
| Local\_Authority | .883 | 1 | .883 | 6.308 | .012 | .001 |
| Error | 600.550 | 4288 | .140 |  |  |  |

**Estimated Marginal Means**

**SPAQ**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| SPAQ | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 2.477a | .007 | 2.463 | 2.491 |
| 2 | 2.674a | .006 | 2.663 | 2.685 |
| a. Covariates appearing in the model are evaluated at the following values: Age\_at\_ref2 = 61.2177, Gender2 = 1.6218, Cohort\_Group = 1.4273, IMD\_Quintile = 3.2217, Local\_Authority = 10.36749. | | | | |

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| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) SPAQ | (J) SPAQ | Mean Difference (I-J) | Std. Error | Sig.b | 95% Confidence Interval for Differenceb | |
| Lower Bound | Upper Bound |
| 1 | 2 | -.197\* | .006 | <.001 | -.208 | -.186 |
| 2 | 1 | .197\* | .006 | <.001 | .186 | .208 |
| Based on estimated marginal means | | | | | | |
| \*. The mean difference is significant at the .05 level. | | | | | | |
| b. Adjustment for multiple comparisons: Bonferroni. | | | | | | |

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| **Multivariate Tests** | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |
| Pillai's trace | .224 | 1240.321a | 1.000 | 4288.000 | <.001 | .224 |
| Wilks' lambda | .776 | 1240.321a | 1.000 | 4288.000 | <.001 | .224 |
| Hotelling's trace | .289 | 1240.321a | 1.000 | 4288.000 | <.001 | .224 |
| Roy's largest root | .289 | 1240.321a | 1.000 | 4288.000 | <.001 | .224 |
| Each F tests the multivariate effect of SPAQ. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means. | | | | | | |
| a. Exact statistic | | | | | | |