**“People in Pain Make Poorer Decisions”**

**SPSS analysis code**

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**\*Study 1**

**\*Study 1: Shopping scores**

*\*Filter by sex to include only males and females.*

USE ALL.

COMPUTE filter\_$=(Sex 3).

VARIABLE LABELS filter\_$ 'Sex 3 (FILTER)'.

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

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

*\*Covariate checks - Correlations between age, highest qualification and shopping scores*

NONPAR CORR

/VARIABLES=Age EduQual Shopping\_score

/PRINT=SPEARMAN TWOTAIL NOSIG

/MISSING=PAIRWISE.

*\*Covariate checks - Differences in age and highest qualification by presence/absence of current pain.*

T-TEST GROUPS=CurrentPainShopping(1 2)

/MISSING=ANALYSIS

/VARIABLES=Age

/CRITERIA=CI(.95).

NPTESTS

/INDEPENDENT TEST (EduQual) GROUP (CurrentPainShopping)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

*\*Covariate checks - Differences in age and highest qualification by presence/absence of recurrent pain.*

T-TEST GROUPS=RecurrentPainShopping(1 2)

/MISSING=ANALYSIS

/VARIABLES=Age

/CRITERIA=CI(.95).

NPTESTS

/INDEPENDENT TEST (EduQual) GROUP (RecurrentPainShopping)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

*\*Main analysis - 2 (current pain: yes, no) x 2 (recurrent pain: yes, no) x 2 (sex: female, male) ANCOVA with age as a covariate.*

USE ALL.

COMPUTE filter\_$=(Sex < 3).

VARIABLE LABELS filter\_$ 'Sex < 3 (FILTER)'.

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

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

UNIANOVA Shopping\_score BY Sex CurrentPainShopping RecurrentPainShopping WITH Age

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/EMMEANS=TABLES(OVERALL) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex) WITH(Age=MEAN)

/EMMEANS=TABLES(CurrentPainShopping) WITH(Age=MEAN)

/EMMEANS=TABLES(RecurrentPainShopping) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex\*CurrentPainShopping) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex\*RecurrentPainShopping) WITH(Age=MEAN)

/EMMEANS=TABLES(CurrentPainShopping\*RecurrentPainShopping) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex\*CurrentPainShopping\*RecurrentPainShopping) WITH(Age=MEAN)

/PRINT=ETASQ DESCRIPTIVE

/CRITERIA=ALPHA(.05)

/DESIGN=Age Sex CurrentPainShopping RecurrentPainShopping Sex\*CurrentPainShopping

Sex\*RecurrentPainShopping CurrentPainShopping\*RecurrentPainShopping

Sex\*CurrentPainShopping\*RecurrentPainShopping.

**\*Study 1: DOI scores**

*\*Covariate checks - Correlations between age, highest qualification and DOI scores*

CORRELATIONS

/VARIABLES=Age EduQual DOI\_score\_USA\_weighted\_nooutliers

/PRINT=TWOTAIL NOSIG

/MISSING=PAIRWISE.

*\*Covariate checks - Differences in age and highest qualification by presence/absence of current pain*

T-TEST GROUPS=CurrentPainDOI(1 2)

/MISSING=ANALYSIS

/VARIABLES=Age

/CRITERIA=CI(.95).

NPTESTS

/INDEPENDENT TEST (EduQual) GROUP (CurrentPainDOI)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

*\*Covariate checks - Differences in age and highest qualification by presence/absence of recurrent pain*

T-TEST GROUPS=RecurrentPainDOI(1 2)

/MISSING=ANALYSIS

/VARIABLES=Age

/CRITERIA=CI(.95).

NPTESTS

/INDEPENDENT TEST (EduQual) GROUP (RecurrentPainDOI)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

*\*Main analysis - 2 (current pain: yes, no) x 2 (recurrent pain: yes, no) x 2 (sex: female, male) ANCOVA with age as a covariate*

USE ALL.

COMPUTE filter\_$=(Sex 3).

VARIABLE LABELS filter\_$ 'Sex 3 (FILTER)'.

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

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

UNIANOVA DOI\_score\_USA\_weighted\_nooutliers BY Sex CurrentPainDOI RecurrentPainDOI WITH Age

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/EMMEANS=TABLES(OVERALL) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex) WITH(Age=MEAN)

/EMMEANS=TABLES(CurrentPainDOI) WITH(Age=MEAN)

/EMMEANS=TABLES(RecurrentPainDOI) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex\*CurrentPainDOI) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex\*RecurrentPainDOI) WITH(Age=MEAN)

/EMMEANS=TABLES(CurrentPainDOI\*RecurrentPainDOI) WITH(Age=MEAN)

/EMMEANS=TABLES(Sex\*CurrentPainDOI\*RecurrentPainDOI) WITH(Age=MEAN)

/PRINT=ETASQ DESCRIPTIVE

/CRITERIA=ALPHA(.05)

/DESIGN=Age Sex CurrentPainDOI RecurrentPainDOI Sex\*CurrentPainDOI Sex\*RecurrentPainDOI

CurrentPainDOI\*RecurrentPainDOI Sex\*CurrentPainDOI\*RecurrentPainDOI.

**\*Study 2**

**\*Study 2: Effect of pain on shopping deal scores**

*\*Paired-samples t-tests to compare number of questions answered correctly and number of questions attempted and answered incorrectly on the shopping task, with the alpha level Bonferroni corrected to 0.025*

T-TEST PAIRS=Control\_Number\_Correct Control\_Number\_Incorrect WITH Pain\_Number\_Correct

Pain\_Number\_Incorrect (PAIRED)

/CRITERIA=CI(.97500)

/MISSING=ANALYSIS.

**\*Study 2: Exploratory analyses**

*\*Manipulation check - VAS ratings in the pain vs no-pain condition*

T-TEST PAIRS=VAS\_pain\_intensity\_cold WITH VAS\_pain\_intensity\_control (PAIRED)

/CRITERIA=CI(.97500)

/MISSING=ANALYSIS.

*\*Check for interaction between pain and sex on shopping scores: 2 (condition: pain, control) x 2 (sex: male, female) mixed ANOVA*

GLM Control\_Number\_Incorrect Pain\_Number\_Incorrect BY Sex

/WSFACTOR=condition 2 Polynomial

/METHOD=SSTYPE(3)

/PRINT=DESCRIPTIVE ETASQ

/CRITERIA=ALPHA(.05)

/WSDESIGN=condition

/DESIGN=Sex.

*\*Total number of items attempted in the pain vs control conditions*

T-TEST PAIRS=Control\_Number\_Attempted WITH Pain\_Number\_Attempted (PAIRED)

/CRITERIA=CI(.97500)

/MISSING=ANALYSIS.