LDT Multiple-Set Canonical Correlation Report

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# Summary of Study

This report is for the Lexical Decision (LDT) task, in which participants were presented with strings of letters and had to determine whether each string was a real word. There were 2 groups: Controls, and Bipolar Patients. There were 4 conditions: HN, EN, HW, and EW. Subjects in the Hard Non-word (HN) condition were presented with non-words that looked like real words. Subjects in the Easy Non-word (EN) condition were presented with non-words that did not look like real words. Subjects in the Hard Word (HW) condition were presented with real but obscure words. Subjects in the Easy Word (EW) condition were presented with real and common words.

# Networks

C1\_Neg\_91\_TDMN\_0.77

C2\_Pos\_86\_LPN\_1.52

C3\_Pos\_71\_1RESP\_1.14

# Variables Included in Exploratory CCA

The increase to peak (ITP) and return to baseline (RTB) values for each network were included. The behavioural variables used in the analysis are Handedness, Sex, Gender\_Identity, TestAge, Marital\_status, Times\_married, Widowed, Children, Living\_Arrangements, City\_born, Country\_born, Birth\_complications, English, Adopted, Fathers\_ethnicity, Mothers\_ethnicity, Participant\_Education, Participant\_Education\_Years, Father\_Education, Mother\_Education, Parental\_Edu\_Sum, Spouse\_Education, Participant\_WorkStatus, Father\_WorkStatus, Mother\_WorkStatus, Spouse\_WorkStatus, Working\_or\_School, Months\_Unemployed, Present\_Occupation, Responsible\_Job, HeadofHousehold\_Occupation, Annual\_Income, Medications, Hospitalized, Head\_Injury, Unconscious, Seizure\_Convulsion, Neurological\_Problems, ECT, Vision\_Difficulties, Paralysis\_Arthritis\_BackPain, Chronic\_Illnesses, Cardio\_Condition, Smoking, Area\_Residence, Religion\_Importance, Spirituality\_Importance, Religious\_Groups, VAR\_GC, EN\_RT, HN\_RT, EW\_RT, HW\_RT, AccEN, AccHN, AccEW, AccHW, SCID\_01\_Lifetime, SCID\_01\_PastMonth, SCID\_01\_PastMonth\_Specify, SCID\_02\_Lifetime, SCID\_02\_PastMonth, SCID\_02\_PastMonth\_Specify, SCID\_03\_Past2Yrs, SCID\_04\_Lifetime, SCID\_04\_PastMonth, SCID\_05\_Lifetime, SCID\_05\_PastMonth, SCID\_05\_Specify, SCID\_06\_Lifetime, SCID\_06\_PastMonth, SCID\_06\_Specify, SCID\_07\_Lifetime, SCID\_07\_PastMonth, SCID\_08\_PriorPast2Yrs, SCID\_08\_Past2Yrs, SCID\_09\_Past12Months, SCID\_10\_Lifetime, SCID\_10\_PastMonth, SCID\_11\_Lifetime, SCID\_11\_PastMonth, SCID\_11\_Specify, SCID\_12\_Lifetime, SCID\_12\_PastMonth, SCID\_12\_Specify, SCID\_13\_Lifetime, SCID\_13\_PastMonth, SCID\_14\_Lifetime, SCID\_14\_PastMonth, SCID\_15\_Lifetime, SCID\_15\_PastMonth, SCID\_16\_Lifetime, SCID\_16\_PastMonth, SCID\_17\_Lifetime, SCID\_17\_PastMonth, SCID\_18\_Lifetime, SCID\_18\_PastMonth, SCID\_18\_Specify, SCID\_19\_Lifetime, SCID\_19\_PastMonth, SCID\_19\_Specify, SCID\_20\_Lifetime, SCID\_20\_PastMonth, SCID\_21\_PriorPast12Months, SCID\_21\_Past12Months, SCID\_22\_PriorPast12Months, SCID\_22\_Past12Months, SCID\_23\_PriorPast12Months, SCID\_23\_Past12Months, SCID\_24\_PriorPast12Months, SCID\_24\_Past12Months, SCID\_25\_PriorPast12Months, SCID\_25\_Past12Months, SCID\_26\_PriorPast12Months, SCID\_26\_Past12Months, SCID\_27\_PriorPast12Months, SCID\_27\_Past12Months, SCID\_28\_PriorPast12Months, SCID\_28\_Past12Months, SCID\_29\_PriorPast12Months, SCID\_29\_Past12Months, SCID\_30\_Lifetime, SCID\_30\_PastMonth, SCID\_32\_Lifetime, SCID\_32\_Past6Months, SCID\_34\_Lifetime, SCID\_34\_Past6Months, SCID\_36\_Lifetime, SCID\_36\_PastMonth, SCID\_37\_Lifetime, SCID\_37\_PastMonth, SCID\_37\_Specify, SCID\_38\_Lifetime, SCID\_38\_PastMonth, SCID\_38\_Specify, SCID\_64\_Lifetime, SCID\_64\_PastMonth, SCID\_64\_Specify, SOFAS\_Range, SOFAS\_Score, FAST\_Autonomy\_1, FAST\_Autonomy\_2, FAST\_Autonomy\_3, FAST\_Autonomy\_4, FAST\_Occupational\_5, FAST\_Occupational\_6, FAST\_Occupational\_7, FAST\_Occupational\_8, FAST\_Occupational\_9, FAST\_Cognitive\_10, FAST\_Cognitive\_11, FAST\_Cognitive\_12, FAST\_Cognitive\_13, FAST\_Cognitive\_14, FAST\_Financial\_15, FAST\_Financial\_16, FAST\_Interpersonal\_17, FAST\_Interpersonal\_18, FAST\_Interpersonal\_19, FAST\_Interpersonal\_20, FAST\_Interpersonal\_21, FAST\_Interpersonal\_22, FAST\_Leisure\_23, FAST\_Leisure\_24, FAST\_TOTAL\_SCORE, YMRS\_1, YMRS\_2, YMRS\_3, YMRS\_4, YMRS\_5, YMRS\_6, YMRS\_7, YMRS\_8, YMRS\_9, YMRS\_10, YMRS\_11, YMRS\_TOTAL\_SCORE, HAMD\_1, HAMD\_2, HAMD\_3, HAMD\_4, HAMD\_5, HAMD\_6, HAMD\_7, HAMD\_8, HAMD\_9, HAMD\_10, HAMD\_11, HAMD\_12, HAMD\_13, HAMD\_14, HAMD\_15, HAMD\_16, HAMD\_17, HAMD\_TOTAL, and WTAR\_Standard.

# Summary of Results for Controls

## Summary for Each Behavioural Variable

Only variables with significant results are reported.

### For Sex:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 8 | -0.58 | HW\_up negative, EW\_up positive, EN\_down negative, EW\_down negative |

### For Gender\_Identity:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 8 | -0.58 | HW\_up negative, EW\_up positive, EN\_down negative, EW\_down negative |

### For TestAge:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 3 | 0.63 | HN\_up negative, HW\_up negative, EW\_up negative, HN\_down positive, HW\_down positive |
| DMN&RESP | RESP | 3 | 0.6 | EN\_up negative, HW\_up negative |
| DMN&LPN&RESP | DMN | 5 | 0.57 | HN\_up negative, HW\_up negative, EW\_up negative, HN\_down positive |

### For Times\_married:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 1 | -0.61 | EW\_up positive, HN\_down positive |
| DMN&RESP | RESP | 1 | -0.58 | EN\_up negative, EW\_up negative, HN\_down negative, HW\_down negative |
| DMN&LPN&RESP | RESP | 1 | -0.55 | EN\_up negative, HW\_up positive, EW\_up negative, HN\_down negative, HW\_down negative |

### For Children:

|  |  |  |  |
| --- | --- | --- | --- |
| **PCA** | | | |
| **Network** | **PC #** | **R value** | **Conditions** |
| LPN | 1 | -0.55 | EN\_up positive, EW\_up positive, EN\_down negative, EW\_down negative |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | LPN | 4 | 0.62 | HN\_up positive, EN\_up negative, EW\_up negative, HW\_down negative |
| DMN&LPN&RESP | LPN | 8 | 0.55 | EW\_up negative, EN\_down positive |

### For Living\_Arrangements:

|  |  |  |  |
| --- | --- | --- | --- |
| **PCA** | | | |
| **Network** | **PC #** | **R value** | **Conditions** |
| RESP | 1 | 0.63 | HN\_up negative, HW\_up negative, EW\_up positive, HN\_down positive, EN\_down positive, HW\_down positive |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 4 | 0.57 | HN\_down negative, EN\_down negative, HW\_down negative |
| DMN&RESP | RESP | 1 | -0.58 | EN\_up negative, EW\_up negative, HN\_down negative, HW\_down negative |
| LPN&RESP | LPN | 4 | 0.64 | HN\_up positive, EN\_up negative, EW\_up negative, HW\_down negative |
| DMN&LPN&RESP | DMN | 1 | -0.58 | EN\_up positive, HN\_down positive, EN\_down positive |
| DMN&LPN&RESP | LPN | 1 | -0.59 | EN\_up positive, EW\_up positive, EW\_down negative |
| DMN&LPN&RESP | RESP | 1 | -0.63 | EN\_up negative, HW\_up positive, EW\_up negative, HN\_down negative, HW\_down negative |

### For Country\_born:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | LPN | 7 | 0.58 | EW\_up positive, HN\_down positive |

### For Adopted:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 4 | 0.55 | HN\_down negative, EN\_down negative, HW\_down negative |

### For Fathers\_ethnicity:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | RESP | 8 | -0.65 | HN\_down negative, EW\_down positive |
| LPN&RESP | RESP | 3 | 0.63 | HN\_up positive, EN\_up positive, HW\_up positive, HW\_down negative, EW\_down negative |
| DMN&LPN&RESP | RESP | 7 | 0.66 | HN\_down positive, EW\_down negative |

### For Mothers\_ethnicity:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | DMN | 5 | -0.55 | HN\_up negative, HW\_up negative, EW\_up negative, HN\_down positive |

### For Participant\_Education\_Years:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | LPN | 6 | 0.6 | HN\_up negative, EN\_down positive, HW\_down positive |

### For Responsible\_Job:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | LPN | 3 | -0.62 | HN\_up negative, HW\_up negative, EN\_down negative, HW\_down negative |
| LPN&RESP | LPN | 2 | -0.57 | EN\_up negative, EW\_down positive |
| DMN&LPN&RESP | LPN | 1 | 0.6 | EN\_up positive, EW\_up positive, EW\_down negative |

### For Medications:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | LPN | 5 | -0.55 | HW\_up negative, HW\_down negative, EW\_down negative |
| DMN&LPN&RESP | RESP | 8 | 0.71 | HW\_up negative, EW\_up positive, EN\_down negative, EW\_down negative |

### For Head\_Injury:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | LPN | 1 | -0.58 | EN\_up positive, EW\_up positive, EW\_down negative |

### For Neurological\_Problems:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 3 | 0.65 | HW\_up positive, EN\_down positive, HW\_down positive |

### For Smoking:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | LPN | 5 | 0.55 | HW\_up negative, HW\_down negative, EW\_down negative |

### For Religious\_Groups:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | LPN | 2 | -0.66 | EW\_up negative, EN\_down positive, HW\_down negative, EW\_down negative |
| LPN&RESP | LPN | 8 | -0.68 | EW\_up negative, EN\_down positive |

### For VAR\_GC:

|  |  |  |  |
| --- | --- | --- | --- |
| **PCA** | | | |
| **Network** | **PC #** | **R value** | **Conditions** |
| LPN | 1 | 0.55 | EN\_up positive, EW\_up positive, EN\_down negative, EW\_down negative |

No significant results with CCA.

### For AccEN:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | LPN | 3 | -0.61 | HN\_up negative, HW\_up negative, EN\_down negative, HW\_down negative |
| DMN&RESP | DMN | 4 | -0.59 | EW\_up positive, EN\_down positive, HW\_down positive |

### For AccHN:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | LPN | 7 | 0.57 | HN\_up positive, HW\_up positive |

### For AccHW:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 7 | -0.56 | HW\_up positive, EW\_down positive |
| DMN&RESP | DMN | 4 | -0.58 | EW\_up positive, EN\_down positive, HW\_down positive |

### For YMRS\_6:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 4 | -0.65 | HN\_down positive, HW\_down positive, EW\_down positive |

### For HAMD\_10:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 4 | -0.65 | HN\_down positive, HW\_down positive, EW\_down positive |

### For HAMD\_14:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 4 | -0.65 | HN\_down positive, HW\_down positive, EW\_down positive |

## Principal Component Analysis

|  |  |
| --- | --- |
| Network | LPN |
| PCA component | **1.0** |
| Correlated with | Demo |
| Condition | Children |
| R | **-0.55** |
| p | 0.01 |
| HN\_up | -0.19 |
| EN\_up | **0.72** |
| HW\_up | -0.15 |
| EW\_up | **0.84** |
| HN\_down | -0.1 |
| EN\_down | **-0.65** |
| HW\_down | -0.15 |
| EW\_down | **-0.74** |

|  |  |
| --- | --- |
| Network | LPN |
| PCA component | **1.0** |
| Correlated with | Demo |
| Condition | VAR\_GC |
| R | **0.55** |
| p | 0.01 |
| HN\_up | -0.19 |
| EN\_up | **0.72** |
| HW\_up | -0.15 |
| EW\_up | **0.84** |
| HN\_down | -0.1 |
| EN\_down | **-0.65** |
| HW\_down | -0.15 |
| EW\_down | **-0.74** |

|  |  |
| --- | --- |
| Network | RESP |
| PCA component | **1.0** |
| Correlated with | Demo |
| Condition | Living\_Arrangements |
| R | **0.63** |
| p | 0.0 |
| HN\_up | **-0.47** |
| EN\_up | 0.31 |
| HW\_up | **-0.6** |
| EW\_up | **0.5** |
| HN\_down | **0.8** |
| EN\_down | **0.55** |
| HW\_down | **0.91** |
| EW\_down | -0.02 |

## Multiple-Set Canonical Correlation Analysis

### Significant Correlation with Sex

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Sex  
Canonical Variate 8 (R = -0.58, P < 0.01)

RESP CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.07 |
| EN\_up | -0.12 |
| HW\_up | **-0.28** |
| EW\_up | **0.29** |
| HN\_down | 0.1 |
| EN\_down | **-0.27** |
| HW\_down | -0.14 |
| EW\_down | **-0.26** |

DMN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.29 |
| EN\_up | -0.17 |
| HW\_up | -0.25 |
| EW\_up | **0.56** |
| HN\_down | -0.1 |
| EN\_down | **-0.49** |
| HW\_down | **-0.35** |
| EW\_down | **-0.65** |

LPN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | -0.13 |
| HW\_up | 0.14 |
| EW\_up | **-0.78** |
| HN\_down | -0.18 |
| EN\_down | **0.55** |
| HW\_down | 0.3 |
| EW\_down | 0.32 |

### Significant Correlation with Gender\_Identity

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Gender\_Identity  
Canonical Variate 8 (R = -0.58, P < 0.01)

RESP CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.07 |
| EN\_up | -0.12 |
| HW\_up | **-0.28** |
| EW\_up | **0.29** |
| HN\_down | 0.1 |
| EN\_down | **-0.27** |
| HW\_down | -0.14 |
| EW\_down | **-0.26** |

DMN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.29 |
| EN\_up | -0.17 |
| HW\_up | -0.25 |
| EW\_up | **0.56** |
| HN\_down | -0.1 |
| EN\_down | **-0.49** |
| HW\_down | **-0.35** |
| EW\_down | **-0.65** |

LPN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | -0.13 |
| HW\_up | 0.14 |
| EW\_up | **-0.78** |
| HN\_down | -0.18 |
| EN\_down | **0.55** |
| HW\_down | 0.3 |
| EW\_down | 0.32 |

### Significant Correlation with TestAge

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and TestAge  
Canonical Variate 3 (R = 0.63, P < 0.01)

DMN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.66** |
| EN\_up | -0.23 |
| HW\_up | **-0.65** |
| EW\_up | **-0.34** |
| HN\_down | **0.49** |
| EN\_down | 0.15 |
| HW\_down | **0.48** |
| EW\_down | -0.05 |

RESP CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.16 |
| EN\_up | **-0.48** |
| HW\_up | **-0.38** |
| EW\_up | -0.23 |
| HN\_down | 0.07 |
| EN\_down | 0.01 |
| HW\_down | 0.23 |
| EW\_down | 0.15 |

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and TestAge  
Canonical Variate 3 (R = 0.6, P < 0.01)

RESP CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.16 |
| EN\_up | **-0.48** |
| HW\_up | **-0.38** |
| EW\_up | -0.23 |
| HN\_down | 0.07 |
| EN\_down | 0.01 |
| HW\_down | 0.23 |
| EW\_down | 0.15 |

DMN CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.66** |
| EN\_up | -0.23 |
| HW\_up | **-0.65** |
| EW\_up | **-0.34** |
| HN\_down | **0.49** |
| EN\_down | 0.15 |
| HW\_down | **0.48** |
| EW\_down | -0.05 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and TestAge  
Canonical Variate 5 (R = 0.57, P < 0.01)

DMN CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.6** |
| EN\_up | -0.21 |
| HW\_up | **-0.81** |
| EW\_up | **-0.54** |
| HN\_down | **0.47** |
| EN\_down | 0.26 |
| HW\_down | 0.19 |
| EW\_down | -0.24 |

LPN CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.29 |
| EN\_up | -0.02 |
| HW\_up | **0.64** |
| EW\_up | 0.2 |
| HN\_down | -0.21 |
| EN\_down | **-0.54** |
| HW\_down | -0.08 |
| EW\_down | **0.57** |

RESP CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.31** |
| EN\_up | **-0.49** |
| HW\_up | **-0.38** |
| EW\_up | -0.12 |
| HN\_down | -0.17 |
| EN\_down | -0.05 |
| HW\_down | 0.15 |
| EW\_down | **-0.46** |

### Significant Correlation with Times\_married

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Times\_married  
Canonical Variate 1 (R = -0.61, P < 0.01)

DMN CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | 0.24 |
| HW\_up | 0.13 |
| EW\_up | **0.36** |
| HN\_down | **0.68** |
| EN\_down | 0.27 |
| HW\_down | 0.15 |
| EW\_down | 0.1 |

RESP CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.26 |
| EN\_up | **-0.5** |
| HW\_up | 0.21 |
| EW\_up | **-0.8** |
| HN\_down | **-0.53** |
| EN\_down | -0.33 |
| HW\_down | **-0.85** |
| EW\_down | 0.08 |

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Times\_married  
Canonical Variate 1 (R = -0.58, P < 0.01)

RESP CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.26 |
| EN\_up | **-0.5** |
| HW\_up | 0.21 |
| EW\_up | **-0.8** |
| HN\_down | **-0.53** |
| EN\_down | -0.33 |
| HW\_down | **-0.85** |
| EW\_down | 0.08 |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | 0.24 |
| HW\_up | 0.13 |
| EW\_up | **0.36** |
| HN\_down | **0.68** |
| EN\_down | 0.27 |
| HW\_down | 0.15 |
| EW\_down | 0.1 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Times\_married  
Canonical Variate 1 (R = -0.55, P < 0.01)

RESP CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.35 |
| EN\_up | **-0.56** |
| HW\_up | **0.52** |
| EW\_up | **-0.6** |
| HN\_down | **-0.51** |
| EN\_down | -0.36 |
| HW\_down | **-0.88** |
| EW\_down | 0.19 |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | **0.39** |
| HW\_up | 0.08 |
| EW\_up | 0.29 |
| HN\_down | **0.78** |
| EN\_down | **0.39** |
| HW\_down | 0.1 |
| EW\_down | 0.28 |

LPN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | **0.76** |
| HW\_up | 0.14 |
| EW\_up | **0.54** |
| HN\_down | -0.29 |
| EN\_down | -0.27 |
| HW\_down | 0.36 |
| EW\_down | **-0.57** |

### Significant Correlation with Children

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Children  
Canonical Variate 4 (R = 0.62, P < 0.01)

LPN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.48** |
| EN\_up | **-0.71** |
| HW\_up | -0.07 |
| EW\_up | **-0.6** |
| HN\_down | -0.33 |
| EN\_down | 0.2 |
| HW\_down | **-0.37** |
| EW\_down | 0.24 |

RESP CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.29 |
| EN\_up | 0.06 |
| HW\_up | **-0.76** |
| EW\_up | 0.09 |
| HN\_down | **0.73** |
| EN\_down | 0.21 |
| HW\_down | **0.42** |
| EW\_down | 0.1 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Children  
Canonical Variate 8 (R = 0.55, P < 0.01)

LPN CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | -0.13 |
| HW\_up | 0.14 |
| EW\_up | **-0.78** |
| HN\_down | -0.18 |
| EN\_down | **0.55** |
| HW\_down | 0.3 |
| EW\_down | 0.32 |

DMN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.29 |
| EN\_up | -0.17 |
| HW\_up | -0.25 |
| EW\_up | **0.56** |
| HN\_down | -0.1 |
| EN\_down | **-0.49** |
| HW\_down | **-0.35** |
| EW\_down | **-0.65** |

RESP CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.07 |
| EN\_up | -0.12 |
| HW\_up | **-0.28** |
| EW\_up | **0.29** |
| HN\_down | 0.1 |
| EN\_down | **-0.27** |
| HW\_down | -0.14 |
| EW\_down | **-0.26** |

### Significant Correlation with Living\_Arrangements

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and Living\_Arrangements  
Canonical Variate 4 (R = 0.57, P < 0.01)

DMN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.39 |
| EN\_up | -0.22 |
| HW\_up | 0.16 |
| EW\_up | -0.17 |
| HN\_down | **-0.91** |
| EN\_down | **-0.62** |
| HW\_down | **-0.64** |
| EW\_down | -0.27 |

LPN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.02 |
| EN\_up | **-0.48** |
| HW\_up | **-0.45** |
| EW\_up | -0.32 |
| HN\_down | **0.56** |
| EN\_down | **0.65** |
| HW\_down | 0.19 |
| EW\_down | **0.47** |

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Living\_Arrangements  
Canonical Variate 1 (R = -0.58, P < 0.01)

RESP CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.26 |
| EN\_up | **-0.5** |
| HW\_up | 0.21 |
| EW\_up | **-0.8** |
| HN\_down | **-0.53** |
| EN\_down | -0.33 |
| HW\_down | **-0.85** |
| EW\_down | 0.08 |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | 0.24 |
| HW\_up | 0.13 |
| EW\_up | **0.36** |
| HN\_down | **0.68** |
| EN\_down | 0.27 |
| HW\_down | 0.15 |
| EW\_down | 0.1 |

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Living\_Arrangements  
Canonical Variate 4 (R = 0.64, P < 0.01)

LPN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.48** |
| EN\_up | **-0.71** |
| HW\_up | -0.07 |
| EW\_up | **-0.6** |
| HN\_down | -0.33 |
| EN\_down | 0.2 |
| HW\_down | **-0.37** |
| EW\_down | 0.24 |

RESP CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.29 |
| EN\_up | 0.06 |
| HW\_up | **-0.76** |
| EW\_up | 0.09 |
| HN\_down | **0.73** |
| EN\_down | 0.21 |
| HW\_down | **0.42** |
| EW\_down | 0.1 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Living\_Arrangements  
Canonical Variate 1 (R = -0.58, P < 0.01)

DMN CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | **0.39** |
| HW\_up | 0.08 |
| EW\_up | 0.29 |
| HN\_down | **0.78** |
| EN\_down | **0.39** |
| HW\_down | 0.1 |
| EW\_down | 0.28 |

LPN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | **0.76** |
| HW\_up | 0.14 |
| EW\_up | **0.54** |
| HN\_down | -0.29 |
| EN\_down | -0.27 |
| HW\_down | 0.36 |
| EW\_down | **-0.57** |

RESP CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.35 |
| EN\_up | **-0.56** |
| HW\_up | **0.52** |
| EW\_up | **-0.6** |
| HN\_down | **-0.51** |
| EN\_down | -0.36 |
| HW\_down | **-0.88** |
| EW\_down | 0.19 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Living\_Arrangements  
Canonical Variate 1 (R = -0.59, P < 0.01)

LPN CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | **0.76** |
| HW\_up | 0.14 |
| EW\_up | **0.54** |
| HN\_down | -0.29 |
| EN\_down | -0.27 |
| HW\_down | 0.36 |
| EW\_down | **-0.57** |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | **0.39** |
| HW\_up | 0.08 |
| EW\_up | 0.29 |
| HN\_down | **0.78** |
| EN\_down | **0.39** |
| HW\_down | 0.1 |
| EW\_down | 0.28 |

RESP CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.35 |
| EN\_up | **-0.56** |
| HW\_up | **0.52** |
| EW\_up | **-0.6** |
| HN\_down | **-0.51** |
| EN\_down | -0.36 |
| HW\_down | **-0.88** |
| EW\_down | 0.19 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Living\_Arrangements  
Canonical Variate 1 (R = -0.63, P < 0.01)

RESP CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.35 |
| EN\_up | **-0.56** |
| HW\_up | **0.52** |
| EW\_up | **-0.6** |
| HN\_down | **-0.51** |
| EN\_down | -0.36 |
| HW\_down | **-0.88** |
| EW\_down | 0.19 |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | **0.39** |
| HW\_up | 0.08 |
| EW\_up | 0.29 |
| HN\_down | **0.78** |
| EN\_down | **0.39** |
| HW\_down | 0.1 |
| EW\_down | 0.28 |

LPN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | **0.76** |
| HW\_up | 0.14 |
| EW\_up | **0.54** |
| HN\_down | -0.29 |
| EN\_down | -0.27 |
| HW\_down | 0.36 |
| EW\_down | **-0.57** |

### Significant Correlation with Country\_born

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between LPN and Country\_born  
Canonical Variate 7 (R = 0.58, P < 0.01)

LPN CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.23 |
| EN\_up | 0.17 |
| HW\_up | 0.08 |
| EW\_up | **0.28** |
| HN\_down | **0.51** |
| EN\_down | -0.04 |
| HW\_down | -0.14 |
| EW\_down | -0.25 |

DMN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.03 |
| EN\_up | -0.02 |
| HW\_up | **0.34** |
| EW\_up | 0.09 |
| HN\_down | -0.14 |
| EN\_down | 0.2 |
| HW\_down | 0.24 |
| EW\_down | **0.52** |

### Significant Correlation with Adopted

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and Adopted  
Canonical Variate 4 (R = 0.55, P < 0.01)

DMN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.39 |
| EN\_up | -0.22 |
| HW\_up | 0.16 |
| EW\_up | -0.17 |
| HN\_down | **-0.91** |
| EN\_down | **-0.62** |
| HW\_down | **-0.64** |
| EW\_down | -0.27 |

LPN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.02 |
| EN\_up | **-0.48** |
| HW\_up | **-0.45** |
| EW\_up | -0.32 |
| HN\_down | **0.56** |
| EN\_down | **0.65** |
| HW\_down | 0.19 |
| EW\_down | **0.47** |

### Significant Correlation with Fathers\_ethnicity

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Fathers\_ethnicity  
Canonical Variate 8 (R = -0.65, P < 0.01)

RESP CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.02 |
| EN\_up | 0.04 |
| HW\_up | 0.25 |
| EW\_up | 0.07 |
| HN\_down | **-0.53** |
| EN\_down | -0.16 |
| HW\_down | 0.19 |
| EW\_down | **0.38** |

DMN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.17 |
| EN\_up | -0.26 |
| HW\_up | -0.35 |
| EW\_up | **0.61** |
| HN\_down | -0.12 |
| EN\_down | **-0.56** |
| HW\_down | -0.33 |
| EW\_down | **-0.73** |

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Fathers\_ethnicity  
Canonical Variate 3 (R = 0.63, P < 0.01)

RESP CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.44** |
| EN\_up | **0.37** |
| HW\_up | **0.23** |
| EW\_up | -0.18 |
| HN\_down | 0.15 |
| EN\_down | 0.16 |
| HW\_down | **-0.28** |
| EW\_down | **-0.32** |

LPN CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.49** |
| EN\_up | **-0.41** |
| HW\_up | 0.08 |
| EW\_up | -0.22 |
| HN\_down | **-0.68** |
| EN\_down | -0.29 |
| HW\_down | -0.04 |
| EW\_down | -0.09 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Fathers\_ethnicity  
Canonical Variate 7 (R = 0.66, P < 0.01)

RESP CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.18 |
| EN\_up | 0.03 |
| HW\_up | -0.3 |
| EW\_up | -0.27 |
| HN\_down | **0.61** |
| EN\_down | 0.22 |
| HW\_down | -0.13 |
| EW\_down | **-0.38** |

DMN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.07 |
| EN\_up | **-0.47** |
| HW\_up | **0.36** |
| EW\_up | **-0.51** |
| HN\_down | **-0.27** |
| EN\_down | 0.26 |
| HW\_down | -0.16 |
| EW\_down | **0.53** |

LPN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.31 |
| EN\_up | **-0.48** |
| HW\_up | -0.18 |
| EW\_up | -0.06 |
| HN\_down | **-0.75** |
| EN\_down | -0.18 |
| HW\_down | 0.12 |
| EW\_down | 0.04 |

### Significant Correlation with Mothers\_ethnicity

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Mothers\_ethnicity  
Canonical Variate 5 (R = -0.55, P < 0.01)

DMN CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.6** |
| EN\_up | -0.21 |
| HW\_up | **-0.81** |
| EW\_up | **-0.54** |
| HN\_down | **0.47** |
| EN\_down | 0.26 |
| HW\_down | 0.19 |
| EW\_down | -0.24 |

LPN CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.29 |
| EN\_up | -0.02 |
| HW\_up | **0.64** |
| EW\_up | 0.2 |
| HN\_down | -0.21 |
| EN\_down | **-0.54** |
| HW\_down | -0.08 |
| EW\_down | **0.57** |

RESP CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.31** |
| EN\_up | **-0.49** |
| HW\_up | **-0.38** |
| EW\_up | -0.12 |
| HN\_down | -0.17 |
| EN\_down | -0.05 |
| HW\_down | 0.15 |
| EW\_down | **-0.46** |

### Significant Correlation with Participant\_Education\_Years

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Participant\_Education\_Years  
Canonical Variate 6 (R = 0.6, P < 0.01)

LPN CV6 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.43** |
| EN\_up | -0.23 |
| HW\_up | -0.22 |
| EW\_up | 0.12 |
| HN\_down | 0.16 |
| EN\_down | **0.39** |
| HW\_down | **0.68** |
| EW\_down | 0.12 |

RESP CV6 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.19** |
| EN\_up | **0.18** |
| HW\_up | -0.04 |
| EW\_up | **-0.24** |
| HN\_down | 0.02 |
| EN\_down | -0.06 |
| HW\_down | **-0.29** |
| EW\_down | **-0.17** |

### Significant Correlation with Responsible\_Job

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between LPN and Responsible\_Job  
Canonical Variate 3 (R = -0.62, P < 0.01)

LPN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.29** |
| EN\_up | -0.2 |
| HW\_up | **-0.48** |
| EW\_up | **-0.24** |
| HN\_down | 0.04 |
| EN\_down | **-0.4** |
| HW\_down | **-0.39** |
| EW\_down | -0.02 |

DMN CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.15 |
| EN\_up | 0.11 |
| HW\_up | **0.36** |
| EW\_up | -0.08 |
| HN\_down | -0.2 |
| EN\_down | **0.53** |
| HW\_down | **0.38** |
| EW\_down | 0.13 |

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Responsible\_Job  
Canonical Variate 2 (R = -0.57, P < 0.01)

LPN CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.03 |
| EN\_up | **-0.4** |
| HW\_up | -0.11 |
| EW\_up | -0.13 |
| HN\_down | 0.18 |
| EN\_down | 0.2 |
| HW\_down | 0.08 |
| EW\_down | **0.63** |

RESP CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.52** |
| EN\_up | 0.24 |
| HW\_up | **-0.34** |
| EW\_up | **0.48** |
| HN\_down | **0.36** |
| EN\_down | **0.31** |
| HW\_down | **0.59** |
| EW\_down | **-0.59** |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Responsible\_Job  
Canonical Variate 1 (R = 0.6, P < 0.01)

LPN CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | **0.76** |
| HW\_up | 0.14 |
| EW\_up | **0.54** |
| HN\_down | -0.29 |
| EN\_down | -0.27 |
| HW\_down | 0.36 |
| EW\_down | **-0.57** |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | **0.39** |
| HW\_up | 0.08 |
| EW\_up | 0.29 |
| HN\_down | **0.78** |
| EN\_down | **0.39** |
| HW\_down | 0.1 |
| EW\_down | 0.28 |

RESP CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.35 |
| EN\_up | **-0.56** |
| HW\_up | **0.52** |
| EW\_up | **-0.6** |
| HN\_down | **-0.51** |
| EN\_down | -0.36 |
| HW\_down | **-0.88** |
| EW\_down | 0.19 |

### Significant Correlation with Medications

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Medications  
Canonical Variate 5 (R = -0.55, P < 0.01)

LPN CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.08 |
| EN\_up | -0.06 |
| HW\_up | **-0.55** |
| EW\_up | 0.26 |
| HN\_down | 0.15 |
| EN\_down | -0.03 |
| HW\_down | **-0.52** |
| EW\_down | **-0.58** |

RESP CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.07 |
| EN\_up | **0.31** |
| HW\_up | 0.17 |
| EW\_up | 0.15 |
| HN\_down | **0.33** |
| EN\_down | **0.27** |
| HW\_down | **0.42** |
| EW\_down | **0.5** |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Medications  
Canonical Variate 8 (R = 0.71, P < 0.01)

RESP CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.07 |
| EN\_up | -0.12 |
| HW\_up | **-0.28** |
| EW\_up | **0.29** |
| HN\_down | 0.1 |
| EN\_down | **-0.27** |
| HW\_down | -0.14 |
| EW\_down | **-0.26** |

DMN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.29 |
| EN\_up | -0.17 |
| HW\_up | -0.25 |
| EW\_up | **0.56** |
| HN\_down | -0.1 |
| EN\_down | **-0.49** |
| HW\_down | **-0.35** |
| EW\_down | **-0.65** |

LPN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | -0.13 |
| HW\_up | 0.14 |
| EW\_up | **-0.78** |
| HN\_down | -0.18 |
| EN\_down | **0.55** |
| HW\_down | 0.3 |
| EW\_down | 0.32 |

### Significant Correlation with Head\_Injury

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Head\_Injury  
Canonical Variate 1 (R = -0.58, P < 0.01)

LPN CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | **0.76** |
| HW\_up | 0.14 |
| EW\_up | **0.54** |
| HN\_down | -0.29 |
| EN\_down | -0.27 |
| HW\_down | 0.36 |
| EW\_down | **-0.57** |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | **0.39** |
| HW\_up | 0.08 |
| EW\_up | 0.29 |
| HN\_down | **0.78** |
| EN\_down | **0.39** |
| HW\_down | 0.1 |
| EW\_down | 0.28 |

RESP CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.35 |
| EN\_up | **-0.56** |
| HW\_up | **0.52** |
| EW\_up | **-0.6** |
| HN\_down | **-0.51** |
| EN\_down | -0.36 |
| HW\_down | **-0.88** |
| EW\_down | 0.19 |

### Significant Correlation with Neurological\_Problems

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and Neurological\_Problems  
Canonical Variate 3 (R = 0.65, P < 0.01)

DMN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.15 |
| EN\_up | 0.11 |
| HW\_up | **0.36** |
| EW\_up | -0.08 |
| HN\_down | -0.2 |
| EN\_down | **0.53** |
| HW\_down | **0.38** |
| EW\_down | 0.13 |

LPN CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.29** |
| EN\_up | -0.2 |
| HW\_up | **-0.48** |
| EW\_up | **-0.24** |
| HN\_down | 0.04 |
| EN\_down | **-0.4** |
| HW\_down | **-0.39** |
| EW\_down | -0.02 |

### Significant Correlation with Smoking

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Smoking  
Canonical Variate 5 (R = 0.55, P < 0.01)

LPN CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.08 |
| EN\_up | -0.06 |
| HW\_up | **-0.55** |
| EW\_up | 0.26 |
| HN\_down | 0.15 |
| EN\_down | -0.03 |
| HW\_down | **-0.52** |
| EW\_down | **-0.58** |

RESP CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.07 |
| EN\_up | **0.31** |
| HW\_up | 0.17 |
| EW\_up | 0.15 |
| HN\_down | **0.33** |
| EN\_down | **0.27** |
| HW\_down | **0.42** |
| EW\_down | **0.5** |

### Significant Correlation with Religious\_Groups

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between LPN and Religious\_Groups  
Canonical Variate 2 (R = -0.66, P < 0.01)

LPN CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.19 |
| EN\_up | 0.14 |
| HW\_up | -0.2 |
| EW\_up | **-0.38** |
| HN\_down | -0.14 |
| EN\_down | **0.51** |
| HW\_down | **-0.3** |
| EW\_down | **-0.57** |

DMN CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.41** |
| EN\_up | 0.08 |
| HW\_up | **0.29** |
| EW\_up | **0.53** |
| HN\_down | -0.15 |
| EN\_down | **-0.35** |
| HW\_down | 0.08 |
| EW\_down | 0.18 |

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Religious\_Groups  
Canonical Variate 8 (R = -0.68, P < 0.01)

LPN CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.09 |
| EN\_up | 0.05 |
| HW\_up | 0.02 |
| EW\_up | **-0.57** |
| HN\_down | 0.08 |
| EN\_down | **0.82** |
| HW\_down | 0.12 |
| EW\_down | -0.15 |

RESP CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.6** |
| EN\_up | **0.38** |
| HW\_up | **0.44** |
| EW\_up | **0.47** |
| HN\_down | 0.22 |
| EN\_down | **0.42** |
| HW\_down | 0.08 |
| EW\_down | **0.43** |

### Significant Correlation with AccEN

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between LPN and AccEN  
Canonical Variate 3 (R = -0.61, P < 0.01)

LPN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.29** |
| EN\_up | -0.2 |
| HW\_up | **-0.48** |
| EW\_up | **-0.24** |
| HN\_down | 0.04 |
| EN\_down | **-0.4** |
| HW\_down | **-0.39** |
| EW\_down | -0.02 |

DMN CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.15 |
| EN\_up | 0.11 |
| HW\_up | **0.36** |
| EW\_up | -0.08 |
| HN\_down | -0.2 |
| EN\_down | **0.53** |
| HW\_down | **0.38** |
| EW\_down | 0.13 |

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and AccEN  
Canonical Variate 4 (R = -0.59, P < 0.01)

DMN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.13 |
| EN\_up | -0.01 |
| HW\_up | 0.25 |
| EW\_up | **0.35** |
| HN\_down | 0.0 |
| EN\_down | **0.44** |
| HW\_down | **0.6** |
| EW\_down | 0.14 |

RESP CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.51** |
| EN\_up | **0.68** |
| HW\_up | 0.28 |
| EW\_up | 0.1 |
| HN\_down | 0.0 |
| EN\_down | -0.12 |
| HW\_down | -0.11 |
| EW\_down | 0.02 |

### Significant Correlation with AccHN

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and AccHN  
Canonical Variate 7 (R = 0.57, P < 0.01)

LPN CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.55** |
| EN\_up | -0.11 |
| HW\_up | **0.78** |
| EW\_up | 0.18 |
| HN\_down | -0.22 |
| EN\_down | -0.03 |
| HW\_down | -0.32 |
| EW\_down | 0.08 |

RESP CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.09 |
| EN\_up | **-0.42** |
| HW\_up | -0.16 |
| EW\_up | **-0.57** |
| HN\_down | 0.05 |
| EN\_down | **0.76** |
| HW\_down | 0.21 |
| EW\_down | 0.21 |

### Significant Correlation with AccHW

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and AccHW  
Canonical Variate 7 (R = -0.56, P < 0.01)

DMN CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.03 |
| EN\_up | -0.02 |
| HW\_up | **0.34** |
| EW\_up | 0.09 |
| HN\_down | -0.14 |
| EN\_down | 0.2 |
| HW\_down | 0.24 |
| EW\_down | **0.52** |

LPN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.23 |
| EN\_up | 0.17 |
| HW\_up | 0.08 |
| EW\_up | **0.28** |
| HN\_down | **0.51** |
| EN\_down | -0.04 |
| HW\_down | -0.14 |
| EW\_down | -0.25 |

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and AccHW  
Canonical Variate 4 (R = -0.58, P < 0.01)

DMN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.13 |
| EN\_up | -0.01 |
| HW\_up | 0.25 |
| EW\_up | **0.35** |
| HN\_down | 0.0 |
| EN\_down | **0.44** |
| HW\_down | **0.6** |
| EW\_down | 0.14 |

RESP CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.51** |
| EN\_up | **0.68** |
| HW\_up | 0.28 |
| EW\_up | 0.1 |
| HN\_down | 0.0 |
| EN\_down | -0.12 |
| HW\_down | -0.11 |
| EW\_down | 0.02 |

### Significant Correlation with YMRS\_6

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and YMRS\_6  
Canonical Variate 4 (R = -0.65, P < 0.01)

RESP CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.04 |
| EN\_up | -0.2 |
| HW\_up | 0.03 |
| EW\_up | 0.2 |
| HN\_down | **0.47** |
| EN\_down | 0.2 |
| HW\_down | **0.29** |
| EW\_down | **0.5** |

DMN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.05 |
| EN\_up | **0.28** |
| HW\_up | -0.03 |
| EW\_up | -0.02 |
| HN\_down | 0.17 |
| EN\_down | 0.12 |
| HW\_down | **0.53** |
| EW\_down | **0.27** |

LPN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.43** |
| EN\_up | 0.17 |
| HW\_up | -0.17 |
| EW\_up | 0.06 |
| HN\_down | **-0.39** |
| EN\_down | -0.16 |
| HW\_down | **-0.72** |
| EW\_down | **-0.57** |

### Significant Correlation with HAMD\_10

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and HAMD\_10  
Canonical Variate 4 (R = -0.65, P < 0.01)

RESP CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.04 |
| EN\_up | -0.2 |
| HW\_up | 0.03 |
| EW\_up | 0.2 |
| HN\_down | **0.47** |
| EN\_down | 0.2 |
| HW\_down | **0.29** |
| EW\_down | **0.5** |

DMN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.05 |
| EN\_up | **0.28** |
| HW\_up | -0.03 |
| EW\_up | -0.02 |
| HN\_down | 0.17 |
| EN\_down | 0.12 |
| HW\_down | **0.53** |
| EW\_down | **0.27** |

LPN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.43** |
| EN\_up | 0.17 |
| HW\_up | -0.17 |
| EW\_up | 0.06 |
| HN\_down | **-0.39** |
| EN\_down | -0.16 |
| HW\_down | **-0.72** |
| EW\_down | **-0.57** |

### Significant Correlation with HAMD\_14

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and HAMD\_14  
Canonical Variate 4 (R = -0.65, P < 0.01)

RESP CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.04 |
| EN\_up | -0.2 |
| HW\_up | 0.03 |
| EW\_up | 0.2 |
| HN\_down | **0.47** |
| EN\_down | 0.2 |
| HW\_down | **0.29** |
| EW\_down | **0.5** |

DMN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.05 |
| EN\_up | **0.28** |
| HW\_up | -0.03 |
| EW\_up | -0.02 |
| HN\_down | 0.17 |
| EN\_down | 0.12 |
| HW\_down | **0.53** |
| EW\_down | **0.27** |

LPN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.43** |
| EN\_up | 0.17 |
| HW\_up | -0.17 |
| EW\_up | 0.06 |
| HN\_down | **-0.39** |
| EN\_down | -0.16 |
| HW\_down | **-0.72** |
| EW\_down | **-0.57** |

# Summary of Results for Bipolar Patients

## Summary for Each Behavioural Variable

Only variables with significant results are reported.

### For Handedness:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 7 | -0.51 | HN\_up negative, HW\_up negative, EW\_up negative |

### For Sex:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 4 | -0.58 | HN\_up negative, EN\_up positive, HW\_up positive, EW\_up positive, EN\_down negative |
| DMN&LPN&RESP | DMN | 5 | -0.58 | HW\_up positive, EW\_up positive, HN\_down negative, EN\_down negative, EW\_down negative |

### For Times\_married:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | RESP | 7 | 0.56 | HN\_up negative, EN\_up negative, HW\_up negative, EW\_up negative, HN\_down positive, EN\_down positive |

### For Children:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | RESP | 2 | 0.54 | EN\_up positive, EW\_up positive, EN\_down negative |
| LPN&RESP | RESP | 2 | -0.51 | EN\_up negative, EW\_up negative, HN\_down negative, HW\_down negative |
| DMN&LPN&RESP | RESP | 1 | 0.6 | EN\_up positive, EW\_up positive |

### For Birth\_complications:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | LPN | 3 | -0.52 | HW\_up negative, EW\_up positive, EN\_down negative, HW\_down negative, EW\_down negative |

### For Adopted:

|  |  |  |  |
| --- | --- | --- | --- |
| **PCA** | | | |
| **Network** | **PC #** | **R value** | **Conditions** |
| RESP | 2 | 0.52 | EN\_up negative, EW\_up negative |

No significant results with CCA.

### For Medications:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 3 | -0.52 | HN\_up negative, HW\_up negative, HN\_down negative |

### For Hospitalized:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 7 | 0.53 | HN\_up negative, HN\_down negative, EN\_down negative, HW\_down negative |

### For Head\_Injury:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 2 | -0.52 | EN\_up positive, HN\_down positive, EN\_down positive |

### For Unconscious:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 2 | -0.57 | EN\_up positive, HN\_down positive, EN\_down positive |

### For Seizure\_Convulsion:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 3 | -0.52 | HN\_up negative, HW\_up negative, HN\_down negative |

### For Neurological\_Problems:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 7 | 0.51 | HN\_up negative, HW\_up negative, EW\_up negative |

### For Paralysis\_Arthritis\_BackPain:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | RESP | 1 | -0.52 | EN\_up positive, EW\_up positive |

### For Smoking:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | DMN | 2 | -0.56 | HN\_up negative, EW\_up negative, EN\_down positive, HW\_down positive, EW\_down positive |
| DMN&LPN&RESP | DMN | 1 | -0.51 | HN\_up negative, EN\_up negative, HN\_down negative, HW\_down positive, EW\_down positive |

### For Spirituality\_Importance:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN&RESP | LPN | 8 | 0.57 | HW\_up positive, HN\_down positive, EN\_down positive, HW\_down positive, EW\_down positive |

### For EN\_RT:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&RESP | RESP | 5 | 0.51 | EN\_up positive, HW\_up negative, HN\_down positive, HW\_down positive |

### For EW\_RT:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | RESP | 5 | 0.58 | HN\_down positive, EN\_down positive, HW\_down positive |

### For HW\_RT:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| LPN&RESP | RESP | 5 | 0.54 | HN\_down positive, EN\_down positive, HW\_down positive |

### For AccHW:

No significant results with PCA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCA** | | | | |
| **Network Group** | **Network** | **CV #** | **R value** | **Conditions** |
| DMN&LPN | DMN | 7 | 0.53 | EN\_up positive, EW\_up positive, HN\_down positive, EN\_down positive, HW\_down positive |

## Principal Component Analysis

|  |  |
| --- | --- |
| Network | RESP |
| PCA component | **2.0** |
| Correlated with | Demo |
| Condition | Adopted |
| R | **0.52** |
| p | 0.01 |
| HN\_up | -0.19 |
| EN\_up | **-0.97** |
| HW\_up | -0.25 |
| EW\_up | **-0.96** |
| HN\_down | -0.11 |
| EN\_down | 0.36 |
| HW\_down | -0.14 |
| EW\_down | 0.42 |

## Multiple-Set Canonical Correlation Analysis

### Significant Correlation with Handedness

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Handedness  
Canonical Variate 7 (R = -0.51, P < 0.01)

DMN CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.39** |
| EN\_up | -0.01 |
| HW\_up | **-0.41** |
| EW\_up | **-0.75** |
| HN\_down | 0.1 |
| EN\_down | -0.01 |
| HW\_down | -0.07 |
| EW\_down | 0.22 |

RESP CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.31** |
| EN\_up | **-0.28** |
| HW\_up | 0.13 |
| EW\_up | -0.15 |
| HN\_down | 0.16 |
| EN\_down | **0.54** |
| HW\_down | **0.29** |
| EW\_down | 0.09 |

### Significant Correlation with Sex

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and Sex  
Canonical Variate 4 (R = -0.58, P < 0.01)

DMN CV4 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.43** |
| EN\_up | **0.43** |
| HW\_up | **0.31** |
| EW\_up | **0.43** |
| HN\_down | -0.08 |
| EN\_down | **-0.3** |
| HW\_down | 0.19 |
| EW\_down | -0.14 |

LPN CV4 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.25** |
| EN\_up | **-0.37** |
| HW\_up | **-0.45** |
| EW\_up | **-0.35** |
| HN\_down | **0.28** |
| EN\_down | **0.29** |
| HW\_down | -0.03 |
| EW\_down | **0.39** |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Sex  
Canonical Variate 5 (R = -0.58, P < 0.01)

DMN CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.16 |
| EN\_up | 0.13 |
| HW\_up | **0.41** |
| EW\_up | **0.37** |
| HN\_down | **-0.36** |
| EN\_down | **-0.5** |
| HW\_down | -0.09 |
| EW\_down | **-0.43** |

LPN CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.69** |
| EN\_up | -0.13 |
| HW\_up | 0.09 |
| EW\_up | **-0.36** |
| HN\_down | 0.07 |
| EN\_down | **0.35** |
| HW\_down | -0.09 |
| EW\_down | **0.41** |

RESP CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.23** |
| EN\_up | **-0.21** |
| HW\_up | -0.13 |
| EW\_up | -0.16 |
| HN\_down | **0.37** |
| EN\_down | 0.0 |
| HW\_down | -0.04 |
| EW\_down | **0.24** |

### Significant Correlation with Times\_married

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Times\_married  
Canonical Variate 7 (R = 0.56, P < 0.01)

RESP CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.26** |
| EN\_up | **-0.44** |
| HW\_up | **-0.26** |
| EW\_up | **-0.27** |
| HN\_down | **0.44** |
| EN\_down | **0.35** |
| HW\_down | 0.08 |
| EW\_down | -0.0 |

LPN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.42** |
| EN\_up | **0.28** |
| HW\_up | 0.04 |
| EW\_up | -0.08 |
| HN\_down | 0.06 |
| EN\_down | 0.05 |
| HW\_down | **-0.3** |
| EW\_down | **0.27** |

### Significant Correlation with Children

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Children  
Canonical Variate 2 (R = 0.54, P < 0.01)

RESP CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.14 |
| EN\_up | **0.4** |
| HW\_up | -0.19 |
| EW\_up | **0.6** |
| HN\_down | 0.25 |
| EN\_down | **-0.41** |
| HW\_down | 0.09 |
| EW\_down | 0.24 |

DMN CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.51** |
| EN\_up | -0.22 |
| HW\_up | 0.2 |
| EW\_up | **-0.38** |
| HN\_down | -0.17 |
| EN\_down | **0.39** |
| HW\_down | **0.59** |
| EW\_down | **0.35** |

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Children  
Canonical Variate 2 (R = -0.51, P < 0.01)

RESP CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.04 |
| EN\_up | **-0.53** |
| HW\_up | 0.13 |
| EW\_up | **-0.68** |
| HN\_down | **-0.52** |
| EN\_down | -0.13 |
| HW\_down | **-0.61** |
| EW\_down | -0.3 |

LPN CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.51** |
| EN\_up | **0.39** |
| HW\_up | -0.34 |
| EW\_up | 0.31 |
| HN\_down | 0.35 |
| EN\_down | **0.4** |
| HW\_down | **0.72** |
| EW\_down | 0.31 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Children  
Canonical Variate 1 (R = 0.6, P < 0.01)

RESP CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.37 |
| EN\_up | **0.65** |
| HW\_up | 0.2 |
| EW\_up | **0.85** |
| HN\_down | 0.16 |
| EN\_down | -0.35 |
| HW\_down | -0.02 |
| EW\_down | -0.16 |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.71** |
| EN\_up | **-0.46** |
| HW\_up | -0.16 |
| EW\_up | -0.22 |
| HN\_down | **-0.4** |
| EN\_down | 0.09 |
| HW\_down | **0.56** |
| EW\_down | **0.36** |

LPN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.08 |
| EN\_up | **-0.46** |
| HW\_up | -0.08 |
| EW\_up | **-0.39** |
| HN\_down | 0.06 |
| EN\_down | 0.01 |
| HW\_down | **-0.57** |
| EW\_down | **-0.36** |

### Significant Correlation with Birth\_complications

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Birth\_complications  
Canonical Variate 3 (R = -0.52, P < 0.01)

LPN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.17 |
| EN\_up | -0.17 |
| HW\_up | **-0.25** |
| EW\_up | **0.37** |
| HN\_down | 0.18 |
| EN\_down | **-0.43** |
| HW\_down | **-0.23** |
| EW\_down | **-0.25** |

DMN CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.01 |
| EN\_up | **0.36** |
| HW\_up | 0.12 |
| EW\_up | **-0.54** |
| HN\_down | -0.0 |
| EN\_down | **0.56** |
| HW\_down | -0.01 |
| EW\_down | -0.11 |

RESP CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.13 |
| EN\_up | -0.09 |
| HW\_up | 0.18 |
| EW\_up | -0.04 |
| HN\_down | 0.02 |
| EN\_down | -0.02 |
| HW\_down | **0.49** |
| EW\_down | **0.93** |

### Significant Correlation with Medications

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Medications  
Canonical Variate 3 (R = -0.52, P < 0.01)

DMN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.46** |
| EN\_up | -0.22 |
| HW\_up | **-0.45** |
| EW\_up | 0.03 |
| HN\_down | **-0.27** |
| EN\_down | 0.01 |
| HW\_down | 0.06 |
| EW\_down | 0.03 |

RESP CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.51** |
| EN\_up | **0.55** |
| HW\_up | **0.78** |
| EW\_up | **0.56** |
| HN\_down | -0.21 |
| EN\_down | -0.21 |
| HW\_down | -0.01 |
| EW\_down | -0.28 |

### Significant Correlation with Hospitalized

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Hospitalized  
Canonical Variate 7 (R = 0.53, P < 0.01)

RESP CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.45** |
| EN\_up | 0.06 |
| HW\_up | -0.22 |
| EW\_up | -0.03 |
| HN\_down | **-0.52** |
| EN\_down | **-0.83** |
| HW\_down | **-0.42** |
| EW\_down | -0.14 |

DMN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.46** |
| EN\_up | **-0.4** |
| HW\_up | -0.2 |
| EW\_up | 0.17 |
| HN\_down | **-0.43** |
| EN\_down | 0.03 |
| HW\_down | -0.06 |
| EW\_down | 0.15 |

LPN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.15 |
| EN\_up | 0.04 |
| HW\_up | 0.14 |
| EW\_up | 0.01 |
| HN\_down | **0.42** |
| EN\_down | **0.73** |
| HW\_down | **0.58** |
| EW\_down | 0.18 |

### Significant Correlation with Head\_Injury

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and Head\_Injury  
Canonical Variate 2 (R = -0.52, P < 0.01)

DMN CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.25 |
| EN\_up | **0.68** |
| HW\_up | 0.25 |
| EW\_up | -0.29 |
| HN\_down | **0.39** |
| EN\_down | **0.59** |
| HW\_down | -0.03 |
| EW\_down | 0.31 |

LPN CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.27** |
| EN\_up | -0.18 |
| HW\_up | **-0.44** |
| EW\_up | **0.49** |
| HN\_down | 0.02 |
| EN\_down | **-0.34** |
| HW\_down | 0.19 |
| EW\_down | -0.13 |

### Significant Correlation with Unconscious

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and Unconscious  
Canonical Variate 2 (R = -0.57, P < 0.01)

DMN CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.25 |
| EN\_up | **0.68** |
| HW\_up | 0.25 |
| EW\_up | -0.29 |
| HN\_down | **0.39** |
| EN\_down | **0.59** |
| HW\_down | -0.03 |
| EW\_down | 0.31 |

LPN CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.27** |
| EN\_up | -0.18 |
| HW\_up | **-0.44** |
| EW\_up | **0.49** |
| HN\_down | 0.02 |
| EN\_down | **-0.34** |
| HW\_down | 0.19 |
| EW\_down | -0.13 |

### Significant Correlation with Seizure\_Convulsion

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Seizure\_Convulsion  
Canonical Variate 3 (R = -0.52, P < 0.01)

DMN CV3 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.46** |
| EN\_up | -0.22 |
| HW\_up | **-0.45** |
| EW\_up | 0.03 |
| HN\_down | **-0.27** |
| EN\_down | 0.01 |
| HW\_down | 0.06 |
| EW\_down | 0.03 |

RESP CV3 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.51** |
| EN\_up | **0.55** |
| HW\_up | **0.78** |
| EW\_up | **0.56** |
| HN\_down | -0.21 |
| EN\_down | -0.21 |
| HW\_down | -0.01 |
| EW\_down | -0.28 |

### Significant Correlation with Neurological\_Problems

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Neurological\_Problems  
Canonical Variate 7 (R = 0.51, P < 0.01)

DMN CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.39** |
| EN\_up | -0.01 |
| HW\_up | **-0.41** |
| EW\_up | **-0.75** |
| HN\_down | 0.1 |
| EN\_down | -0.01 |
| HW\_down | -0.07 |
| EW\_down | 0.22 |

RESP CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **0.31** |
| EN\_up | **-0.28** |
| HW\_up | 0.13 |
| EW\_up | -0.15 |
| HN\_down | 0.16 |
| EN\_down | **0.54** |
| HW\_down | **0.29** |
| EW\_down | 0.09 |

### Significant Correlation with Paralysis\_Arthritis\_BackPain

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and Paralysis\_Arthritis\_BackPain  
Canonical Variate 1 (R = -0.52, P < 0.01)

RESP CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.37 |
| EN\_up | **0.65** |
| HW\_up | 0.2 |
| EW\_up | **0.85** |
| HN\_down | 0.16 |
| EN\_down | -0.35 |
| HW\_down | -0.02 |
| EW\_down | -0.16 |

DMN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.71** |
| EN\_up | **-0.46** |
| HW\_up | -0.16 |
| EW\_up | -0.22 |
| HN\_down | **-0.4** |
| EN\_down | 0.09 |
| HW\_down | **0.56** |
| EW\_down | **0.36** |

LPN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.08 |
| EN\_up | **-0.46** |
| HW\_up | -0.08 |
| EW\_up | **-0.39** |
| HN\_down | 0.06 |
| EN\_down | 0.01 |
| HW\_down | **-0.57** |
| EW\_down | **-0.36** |

### Significant Correlation with Smoking

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Smoking  
Canonical Variate 2 (R = -0.56, P < 0.01)

DMN CV2 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.51** |
| EN\_up | -0.22 |
| HW\_up | 0.2 |
| EW\_up | **-0.38** |
| HN\_down | -0.17 |
| EN\_down | **0.39** |
| HW\_down | **0.59** |
| EW\_down | **0.35** |

RESP CV2 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.14 |
| EN\_up | **0.4** |
| HW\_up | -0.19 |
| EW\_up | **0.6** |
| HN\_down | 0.25 |
| EN\_down | **-0.41** |
| HW\_down | 0.09 |
| EW\_down | 0.24 |

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between DMN and Smoking  
Canonical Variate 1 (R = -0.51, P < 0.01)

DMN CV1 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.71** |
| EN\_up | **-0.46** |
| HW\_up | -0.16 |
| EW\_up | -0.22 |
| HN\_down | **-0.4** |
| EN\_down | 0.09 |
| HW\_down | **0.56** |
| EW\_down | **0.36** |

LPN CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.08 |
| EN\_up | **-0.46** |
| HW\_up | -0.08 |
| EW\_up | **-0.39** |
| HN\_down | 0.06 |
| EN\_down | 0.01 |
| HW\_down | **-0.57** |
| EW\_down | **-0.36** |

RESP CV1 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.37 |
| EN\_up | **0.65** |
| HW\_up | 0.2 |
| EW\_up | **0.85** |
| HN\_down | 0.16 |
| EN\_down | -0.35 |
| HW\_down | -0.02 |
| EW\_down | -0.16 |

### Significant Correlation with Spirituality\_Importance

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between LPN and Spirituality\_Importance  
Canonical Variate 8 (R = 0.57, P < 0.01)

LPN CV8 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.21 |
| EN\_up | 0.02 |
| HW\_up | **0.38** |
| EW\_up | 0.32 |
| HN\_down | **0.49** |
| EN\_down | **0.46** |
| HW\_down | **0.37** |
| EW\_down | **0.66** |

DMN CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.13 |
| EN\_up | **-0.49** |
| HW\_up | **-0.46** |
| EW\_up | **-0.71** |
| HN\_down | **-0.5** |
| EN\_down | **-0.4** |
| HW\_down | **-0.58** |
| EW\_down | -0.16 |

RESP CV8 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.33** |
| EN\_up | **-0.21** |
| HW\_up | **-0.29** |
| EW\_up | -0.18 |
| HN\_down | **0.39** |
| EN\_down | 0.12 |
| HW\_down | **0.38** |
| EW\_down | 0.08 |

### Significant Correlation with EN\_RT

#### C1\_Neg\_91\_TDMN\_0.77 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and EN\_RT  
Canonical Variate 5 (R = 0.51, P < 0.01)

RESP CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.27 |
| EN\_up | **0.36** |
| HW\_up | **-0.37** |
| EW\_up | 0.07 |
| HN\_down | **0.71** |
| EN\_down | -0.01 |
| HW\_down | **0.42** |
| EW\_down | 0.02 |

DMN CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.18 |
| EN\_up | 0.08 |
| HW\_up | **0.56** |
| EW\_up | -0.03 |
| HN\_down | 0.1 |
| EN\_down | **0.3** |
| HW\_down | **-0.31** |
| EW\_down | 0.25 |

### Significant Correlation with EW\_RT

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and EW\_RT  
Canonical Variate 5 (R = 0.58, P < 0.01)

RESP CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | 0.19 |
| HW\_up | -0.25 |
| EW\_up | -0.08 |
| HN\_down | **0.62** |
| EN\_down | **0.49** |
| HW\_down | **0.34** |
| EW\_down | -0.27 |

LPN CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.05 |
| EN\_up | -0.24 |
| HW\_up | 0.27 |
| EW\_up | -0.09 |
| HN\_down | **-0.72** |
| EN\_down | -0.29 |
| HW\_down | -0.01 |
| EW\_down | 0.16 |

### Significant Correlation with HW\_RT

#### C2\_Pos\_86\_LPN\_1.52 & C3\_Pos\_71\_1RESP\_1.14

Significant correlation between RESP and HW\_RT  
Canonical Variate 5 (R = 0.54, P < 0.01)

RESP CV5 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.25 |
| EN\_up | 0.19 |
| HW\_up | -0.25 |
| EW\_up | -0.08 |
| HN\_down | **0.62** |
| EN\_down | **0.49** |
| HW\_down | **0.34** |
| EW\_down | -0.27 |

LPN CV5 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | 0.05 |
| EN\_up | -0.24 |
| HW\_up | 0.27 |
| EW\_up | -0.09 |
| HN\_down | **-0.72** |
| EN\_down | -0.29 |
| HW\_down | -0.01 |
| EW\_down | 0.16 |

### Significant Correlation with AccHW

#### C1\_Neg\_91\_TDMN\_0.77 & C2\_Pos\_86\_LPN\_1.52

Significant correlation between DMN and AccHW  
Canonical Variate 7 (R = 0.53, P < 0.01)

DMN CV7 Canonical Loadings

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | -0.12 |
| EN\_up | **0.29** |
| HW\_up | -0.24 |
| EW\_up | **0.29** |
| HN\_down | **0.55** |
| EN\_down | **0.38** |
| HW\_down | **0.42** |
| EW\_down | -0.26 |

LPN CV7 Canonical Loadings - Not Significant

|  |  |
| --- | --- |
| Condition |  |
| HN\_up | **-0.46** |
| EN\_up | 0.22 |
| HW\_up | **-0.45** |
| EW\_up | -0.05 |
| HN\_down | -0.02 |
| EN\_down | **-0.62** |
| HW\_down | **-0.43** |
| EW\_down | -0.29 |