LDT Multiple-Set Canonical Correlation Report

# Summary of Study, Networks, Conditions, and Behavioural Data

This report is for the \_\_\_\_\_\_\_\_ (LDT) task, in which participants were \_\_\_(describe task)\_\_\_. There were 2 groups: controls and patients with \_\_\_(e.g. bipolar disorder)\_\_\_. There were 8 conditions: HN\_up, EN\_up, HW\_up, EW\_up, HN\_down, EN\_down, HW\_down, and EW\_down. Subjects in the \_\_\_\_\_ condition did \_\_\_(describe condition 1)\_\_\_, subjects in the \_\_\_\_ condition did \_\_(describe condition 2)\_\_\_, etc. The 3 networks identified as part of this study are: DMN, LPN, and RESP. Variables inputted include the ITP and RTB values for each network. 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 |