OUTPUT J: SAS

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROCESS Procedure for SAS Version 3.0 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

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| Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com |

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| Documentation available in Hayes (2018) www.guilford.com/p/hayes3 |

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| **Model and Variables** | |
| --- | --- |
| **Model:** | 14 |
| **Y:** | PERFORM |
| **X:** | DYSFUNC |
| **M:** | NEGTONE |
| **W:** | NEGEXP |

| **Covariates:** | | |
| --- | --- | --- |
| D1 | D2 | D3 |

| **Sample size:** |
| --- |
| 60 |

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| **OUTCOME VARIABLE:** |
| --- |
| NEGTONE |

| **Model Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **R-sq** | **MSE** | **F** | **df1** | **df2** | **p** |
| 0.5026 | 0.2526 | 0.2213 | 4.6462 | 4.0000 | 55.0000 | 0.0027 |

| **Model** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **coeff** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **constant** | -0.2057 | 0.1305 | -1.5760 | 0.1208 | -0.4672 | 0.0559 |
| **DYSFUNC** | 0.6095 | 0.1668 | 3.6546 | 0.0006 | 0.2753 | 0.9437 |
| **D1** | 0.3487 | 0.1715 | 2.0332 | 0.0469 | 0.0050 | 0.6923 |
| **D2** | 0.2951 | 0.2122 | 1.3906 | 0.1700 | -0.1302 | 0.7204 |
| **D3** | 0.2507 | 0.1663 | 1.5078 | 0.1373 | -0.0825 | 0.5840 |

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| **OUTCOME VARIABLE:** |
| --- |
| PERFORM |

| **Model Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **R-sq** | **MSE** | **F** | **df1** | **df2** | **p** |
| 0.5937 | 0.3524 | 0.2006 | 4.0428 | 7.0000 | 52.0000 | 0.0013 |

| **Model** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **coeff** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **constant** | -0.1754 | 0.1305 | -1.3444 | 0.1847 | -0.4373 | 0.0864 |
| **DYSFUNC** | 0.3729 | 0.1808 | 2.0622 | 0.0442 | 0.0100 | 0.7357 |
| **NEGTONE** | -0.4886 | 0.1377 | -3.5485 | 0.0008 | -0.7649 | -0.2123 |
| **NEGEXP** | -0.0221 | 0.1176 | -0.1875 | 0.8520 | -0.2581 | 0.2140 |
| **Int\_1** | -0.4498 | 0.2451 | -1.8353 | 0.0722 | -0.9417 | 0.0420 |
| **D1** | 0.1815 | 0.1720 | 1.0556 | 0.2960 | -0.1635 | 0.5266 |
| **D2** | 0.0841 | 0.2099 | 0.4004 | 0.6905 | -0.3372 | 0.5053 |
| **D3** | 0.2816 | 0.1648 | 1.7087 | 0.0935 | -0.0491 | 0.6123 |

| **Product terms key:** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Int\_1 | : | NEGTONE | x | NEGEXP |  |  |

| **Test(s) of highest order unconditional interactions:** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  | **R2-chng** | **F** | **df1** | **df2** | **p** |
| **M\*W** | 0.0419 | 3.3684 | 1.0000 | 52.0000 | 0.0722 |

| **--------------------------** | | | |
| --- | --- | --- | --- |
| Focal | predict: | NEGTONE | (M) |
|  | Mod var: | NEGEXP | (W) |

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| Conditional effects of the focal predictor at values of the moderator(s): |

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| --- | --- | --- | --- | --- | --- | --- |
| **NEGEXP** | **Effect** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| -0.5308 | -0.2498 | 0.2196 | -1.1379 | 0.2604 | -0.6904 | 0.1907 |
| -0.0600 | -0.4616 | 0.1434 | -3.2188 | 0.0022 | -0.7494 | -0.1738 |
| 0.6000 | -0.7585 | 0.1633 | -4.6451 | 0.0000 | -1.0862 | -0.4308 |

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| Data for visualizing the conditional effect of the focal predictor: |

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| **NEGTONE** | **NEGEXP** | **PERFORM** |
| -0.4500 | -0.5308 | 0.1258 |
| -0.0350 | -0.5308 | 0.0222 |
| 0.5224 | -0.5308 | -0.1171 |
| -0.4500 | -0.0600 | 0.2108 |
| -0.0350 | -0.0600 | 0.0192 |
| 0.5224 | -0.0600 | -0.2381 |
| -0.4500 | 0.6000 | 0.3298 |
| -0.0350 | 0.6000 | 0.0150 |
| 0.5224 | 0.6000 | -0.4078 |

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DIRECT AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| **Direct effect of X on Y** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| 0.3729 | 0.1808 | 2.0622 | 0.0442 | 0.0100 | 0.7357 |

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| Conditional indirect effects of X on Y: |

| **INDIRECT EFFECT:** | | | | |
| --- | --- | --- | --- | --- |
| DYSFUNC | -> | NEGTONE | -> | PERFORM |

|  | | | | | |
| --- | --- | --- | --- | --- | --- |
|  | **NEGEXP** | **Effect** | **BootSE** | **BootLLCI** | **BootULCI** |
|  | -0.5308 | -0.1523 | 0.1517 | -0.4393 | 0.1830 |
|  | -0.0600 | -0.2813 | 0.1250 | -0.5451 | -0.0571 |
|  | 0.6000 | -0.4623 | 0.1690 | -0.8083 | -0.1472 |

| **Index of moderated mediation:** | | | | |
| --- | --- | --- | --- | --- |
|  | **Index** | **BootSE** | **BootLLCI** | **BootULCI** |
| **NEGEXP** | -0.2742 | 0.1768 | -0.7025 | -0.0234 |

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| **Level of confidence for all confidence intervals in output:** |
| --- |
| 95.0000 |

| **Number of bootstrap samples for percentile bootstrap confidence intervals:** |
| --- |
| 10000 |

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| W values in conditional tables are the 16th, 50th, and 84th percentiles |

| **NOTE: Some bootstrap samples had to be replaced. The number of such replacements was:** |
| --- |
| 3 |