**OUTPUT M: SAS**

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| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MEMORE Procedure for SAS Version 1.1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

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| **Written by Amanda K. Montoya and Andrew F. Hayes** |

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| **Documentation available at afhayes.com** |

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| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

| **Variables:** | | |
| --- | --- | --- |
| **Y =** | **PAIN2** | **PAIN1** |
| **M =** | **HORMONE2** | **HORMONE1** |

| **Computed Variables:** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Ydiff =** |  | **PAIN2** | **-** | **PAIN1** |  |  |  |
| **Mdiff =** |  | **HORMONE2** | **-** | **HORMONE1** |  |  |  |
| **Mavg =** | **(** | **HORMONE2** | **+** | **HORMONE1** | **)** | **/2** | **centered** |

| **Sample Size:** |
| --- |
| **20** |

|  |
| --- |
| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

| **Outcome:** | | | |
| --- | --- | --- | --- |
| **Ydiff =** | **PAIN2** | **-** | **PAIN1** |

| **Model** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Effect** | **SE** | **t** | **df** | **p** | **LLCI** | **ULCI** |
| **'X'** | **-6.5000** | **2.0654** | **-3.1471** | **19.0000** | **0.0053** | **-10.8232** | **-2.1768** |

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| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

| **Outcome:** | | | |
| --- | --- | --- | --- |
| **Mdiff =** | **HORMONE2** | **-** | **HORMONE1** |

| **Model** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Effect** | **SE** | **t** | **df** | **p** | **LLCI** | **ULCI** |
| **'X'** | **-2.2500** | **0.9173** | **-2.4528** | **19.0000** | **0.0240** | **-4.1701** | **-0.3299** |

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| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

| **Outcome:** | | | |
| --- | --- | --- | --- |
| **Ydiff =** | **PAIN2** | **-** | **PAIN1** |

| **Model Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **R-sq** | **MSE** | **F** | **df1** | **df2** | **p** |
| **0.5554** | **0.3085** | **65.9384** | **3.7918** | **2.0000** | **17.0000** | **0.0435** |

| **Model** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Effect** | **SE** | **t** | **df** | **p** | **LLCI** | **ULCI** |
| **'X'** | **-3.7654** | **2.0869** | **-1.8043** | **17.0000** | **0.0889** | **-8.1687** | **0.6379** |
| **Mdiff** | **1.2154** | **0.4572** | **2.6583** | **17.0000** | **0.0166** | **0.2507** | **2.1801** |
| **Mavg** | **-0.1302** | **0.3209** | **-0.4057** | **17.0000** | **0.6900** | **-0.8074** | **0.5470** |

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| **\*\*\*\*\*\*\*\*\*\*\*\* TOTAL, DIRECT, AND INDIRECT EFFECTS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

| **Total effect of X on Y** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Effect** | **SE** | **t** | **df** | **p** | **LLCI** | **ULCI** |
| **-6.5000** | **2.0654** | **-3.1471** | **19.0000** | **0.0053** | **-10.8232** | **-2.1768** |

| **Direct effect of X on Y** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Effect** | **SE** | **t** | **df** | **p** | **LLCI** | **ULCI** |
| **-3.7654** | **2.0869** | **-1.8043** | **17.0000** | **0.0889** | **-8.1687** | **0.6379** |

| **Indirect Effect of X on Y through M** | | | | |
| --- | --- | --- | --- | --- |
|  | **Effect** | **Boot SE** | **BootLLCI** | **BootULCI** |
| **Ind1** | **-2.7346** | **1.3262** | **-5.6979** | **-0.5390** |

| **Indirect effect key** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Ind1** | **X** | **->** | **M1diff** | **->** | **Ydiff** |  |  |

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| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND WARNINGS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

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| **Check SAS log for errors. Do not interpret output if errors are found.** |

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| **Bootstrap confidence interval method: Percentile** |

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

| **Level of confidence for all confidence intervals in output:** |
| --- |
| **95** |