**Results**

**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_LTL\_em |  | - |  | l\_LTL\_ch |  | 10.634 |  | 29 |  | 1.606e -11 |  | 0.139 |  | 0.013 |  | 0.113 |  | 0.166 |  | 1.942 |  | 1.323 |  | 2.548 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

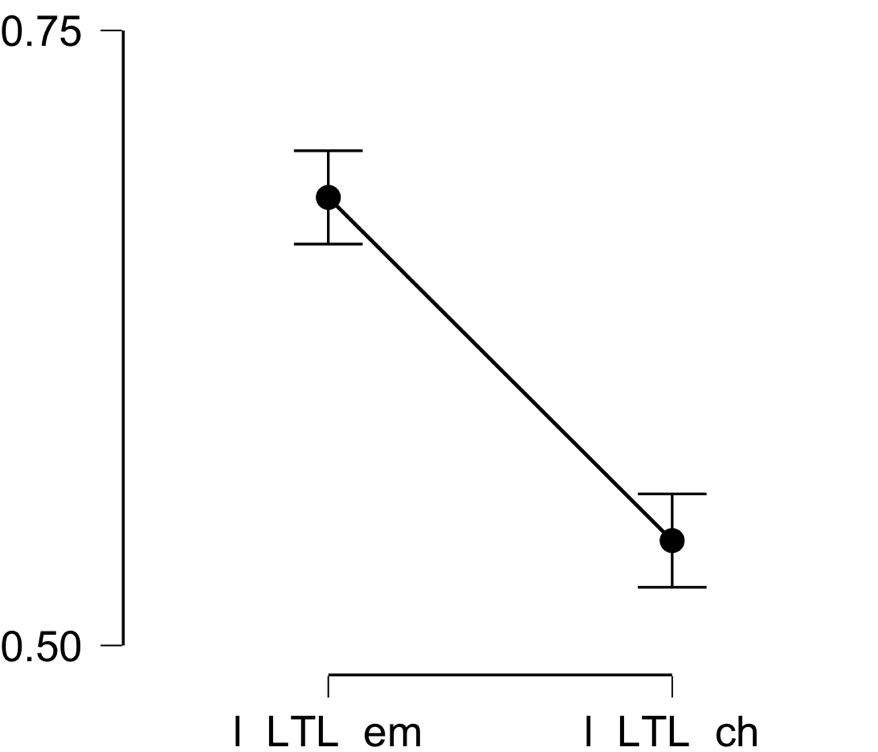
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_LTL\_em |  | - |  | l\_LTL\_ch |  | 0.955 |  | 0.233 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_LTL\_em |  | 30 |  | 0.682 |  | 0.065 |  | 0.012 |  |
| l\_LTL\_ch |  | 30 |  | 0.543 |  | 0.032 |  | 0.006 |  |
|  | | | | | | | | | |

**Descriptives Plot**



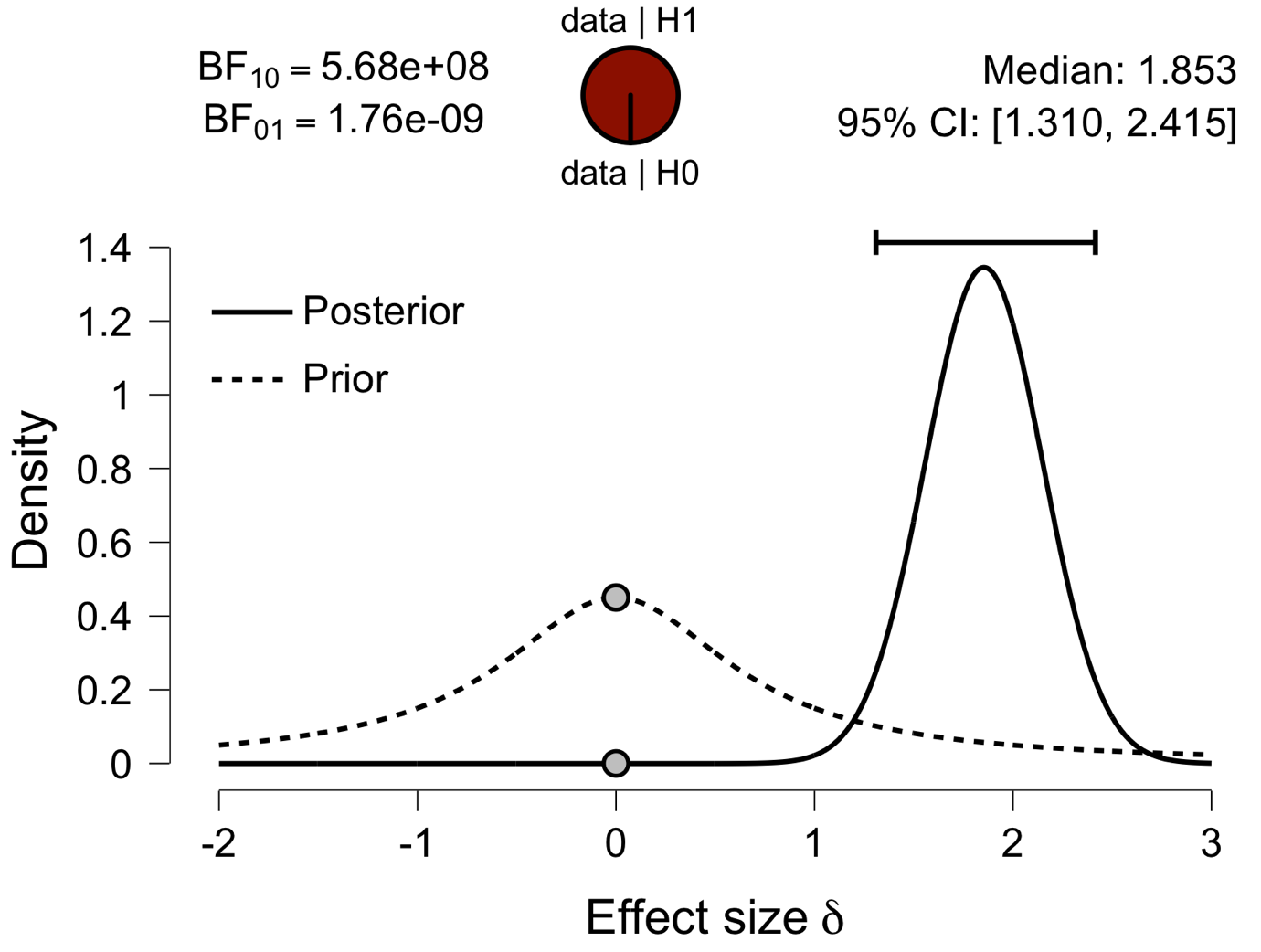
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_LTL\_em |  | - |  | l\_LTL\_ch |  | 5.676e +8 |  | 1.068e -11 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_LTL\_em - l\_LTL\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_IFG\_em |  | - |  | l\_IFG\_ch |  | 10.799 |  | 29 |  | 1.121e -11 |  | 0.116 |  | 0.011 |  | 0.094 |  | 0.138 |  | 1.972 |  | 1.347 |  | 2.585 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

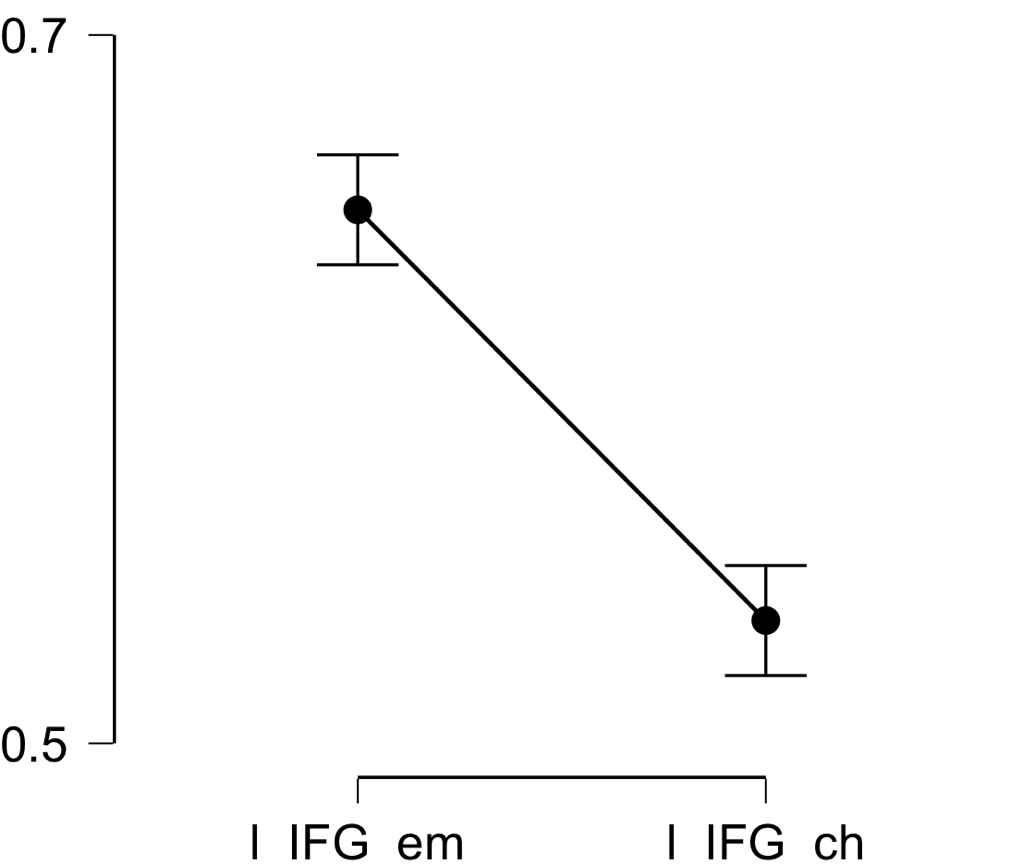
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_IFG\_em |  | - |  | l\_IFG\_ch |  | 0.967 |  | 0.471 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_IFG\_em |  | 30 |  | 0.651 |  | 0.048 |  | 0.009 |  |
| l\_IFG\_ch |  | 30 |  | 0.535 |  | 0.032 |  | 0.006 |  |
|  | | | | | | | | | |

**Descriptives Plot**



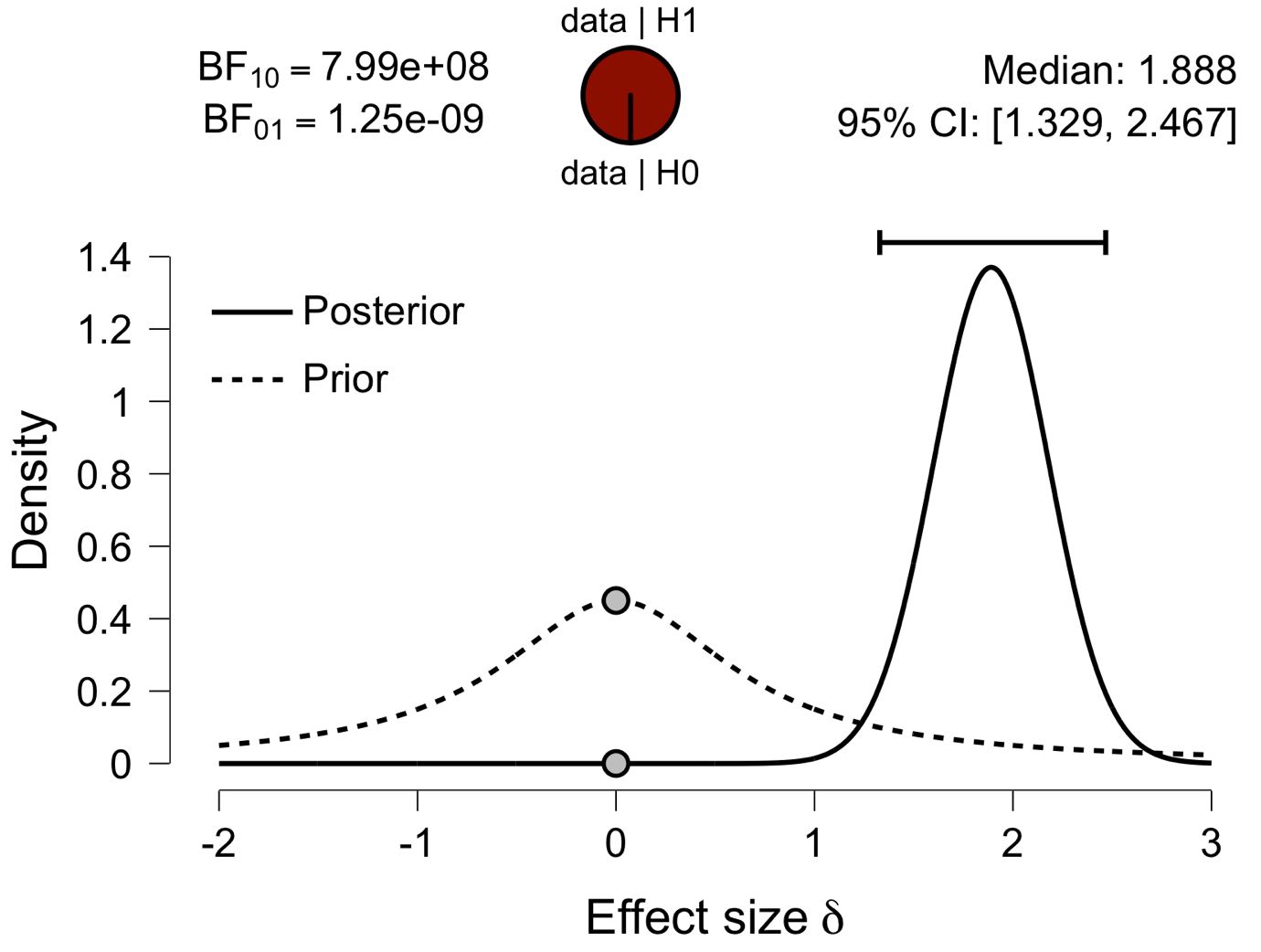
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_IFG\_em |  | - |  | l\_IFG\_ch |  | 7.986e +8 |  | 4.994e -13 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_IFG\_em - l\_IFG\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_Prec\_em |  | - |  | l\_Prec\_ch |  | 10.952 |  | 29 |  | 8.061e -12 |  | 0.124 |  | 0.011 |  | 0.101 |  | 0.147 |  | 2.000 |  | 1.369 |  | 2.618 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

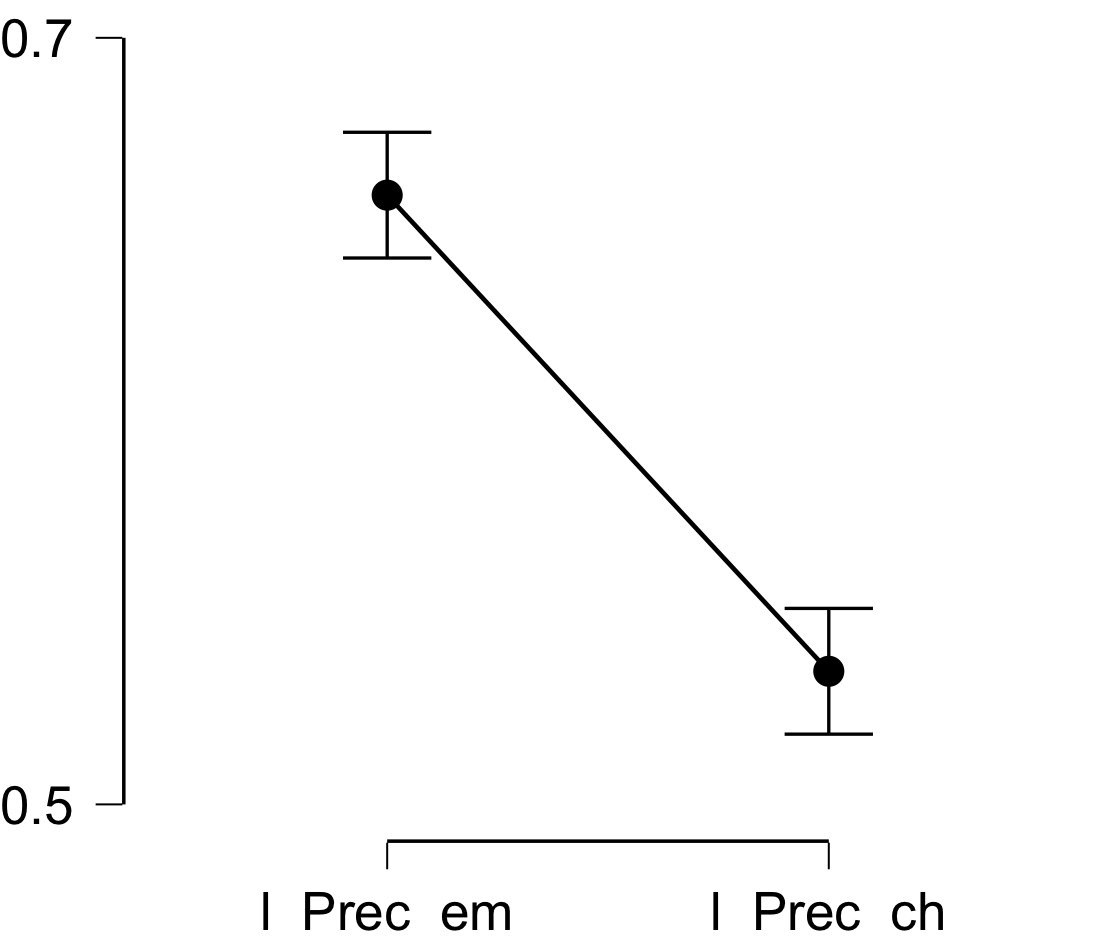
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_Prec\_em |  | - |  | l\_Prec\_ch |  | 0.991 |  | 0.994 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_Prec\_em |  | 30 |  | 0.659 |  | 0.049 |  | 0.009 |  |
| l\_Prec\_ch |  | 30 |  | 0.535 |  | 0.037 |  | 0.007 |  |
|  | | | | | | | | | |

**Descriptives Plot**



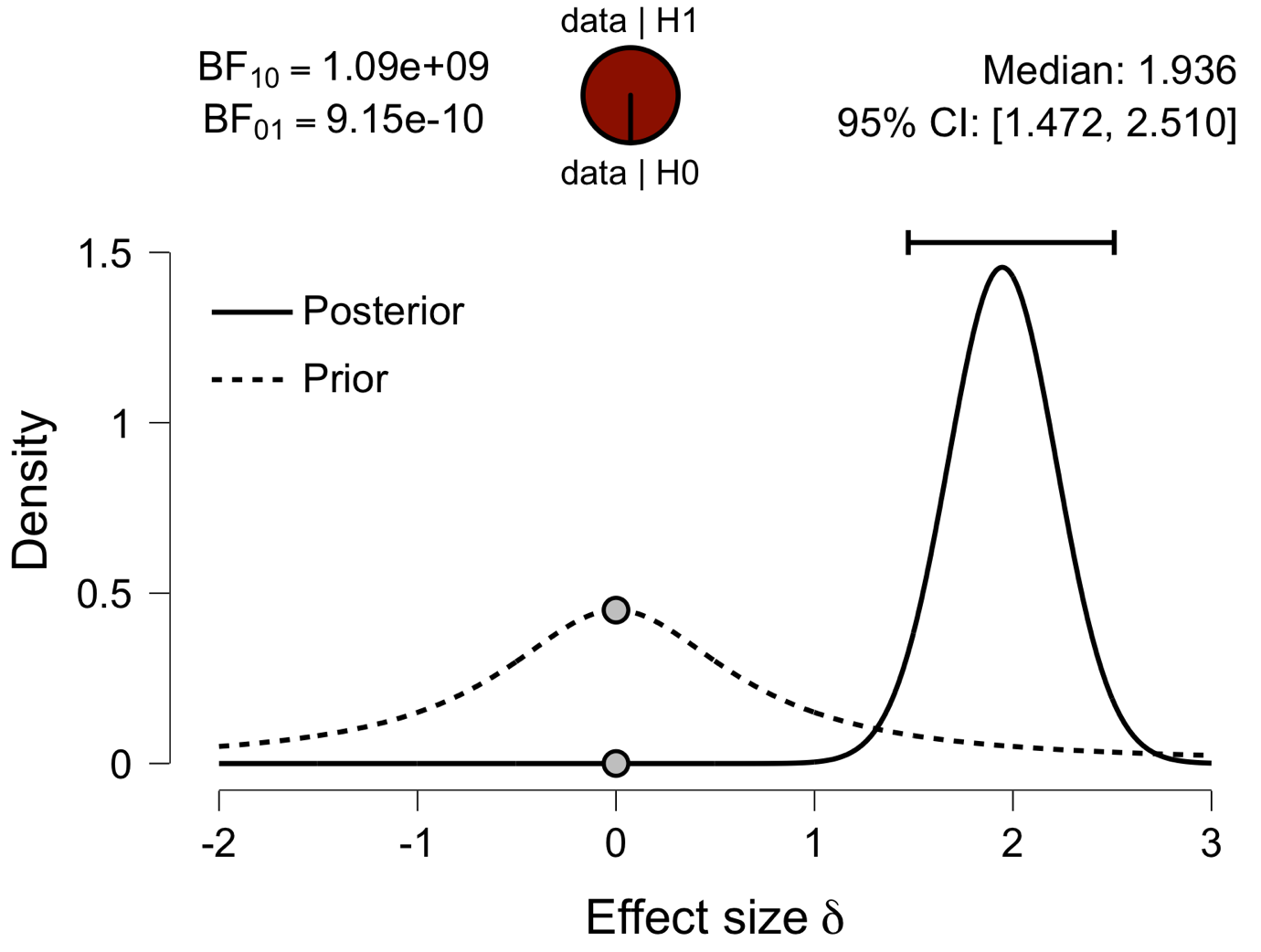
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_Prec\_em |  | - |  | l\_Prec\_ch |  | 1.093e +9 |  | 3.637e -13 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_Prec\_em - l\_Prec\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_ATL\_em |  | - |  | l\_ATL\_ch |  | 8.290 |  | 29 |  | 3.869e -9 |  | 0.085 |  | 0.010 |  | 0.064 |  | 0.106 |  | 1.514 |  | 0.980 |  | 2.035 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

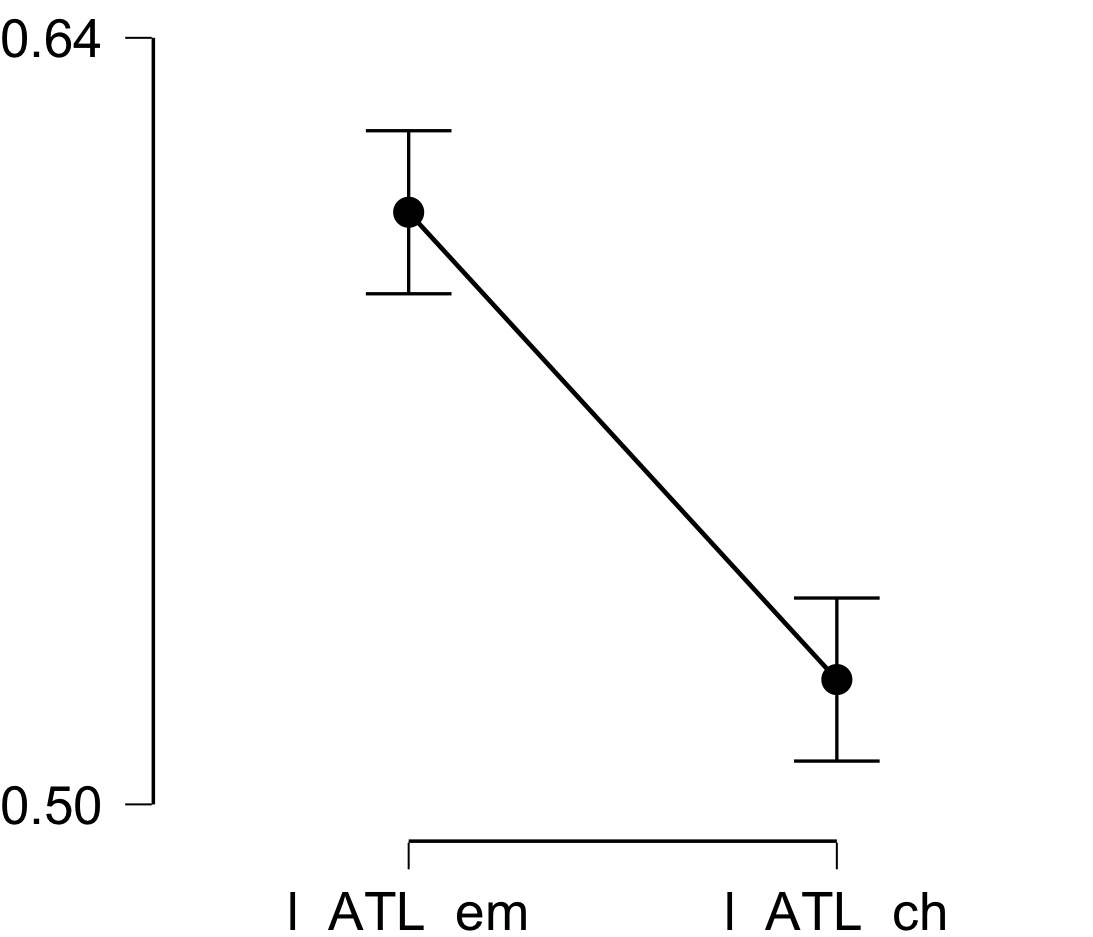
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_ATL\_em |  | - |  | l\_ATL\_ch |  | 0.949 |  | 0.162 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_ATL\_em |  | 30 |  | 0.608 |  | 0.047 |  | 0.009 |  |
| l\_ATL\_ch |  | 30 |  | 0.523 |  | 0.032 |  | 0.006 |  |
|  | | | | | | | | | |

**Descriptives Plot**



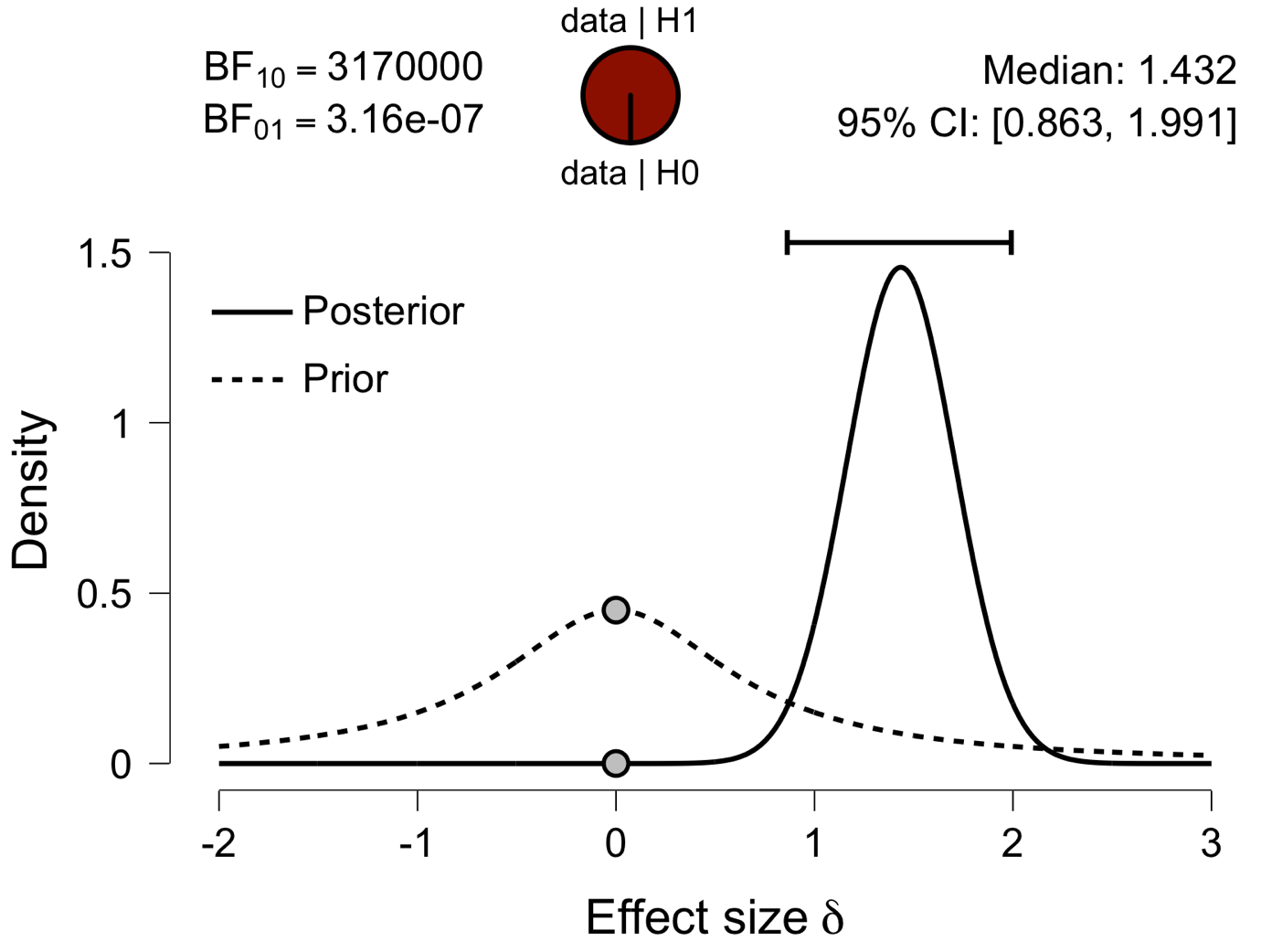
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_ATL\_em |  | - |  | l\_ATL\_ch |  | 3.170e +6 |  | 1.907e -10 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_ATL\_em - l\_ATL\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_aPFC\_em |  | - |  | l\_aPFC\_ch |  | 8.833 |  | 29 |  | 1.019e -9 |  | 0.113 |  | 0.013 |  | 0.087 |  | 0.140 |  | 1.613 |  | 1.060 |  | 2.153 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

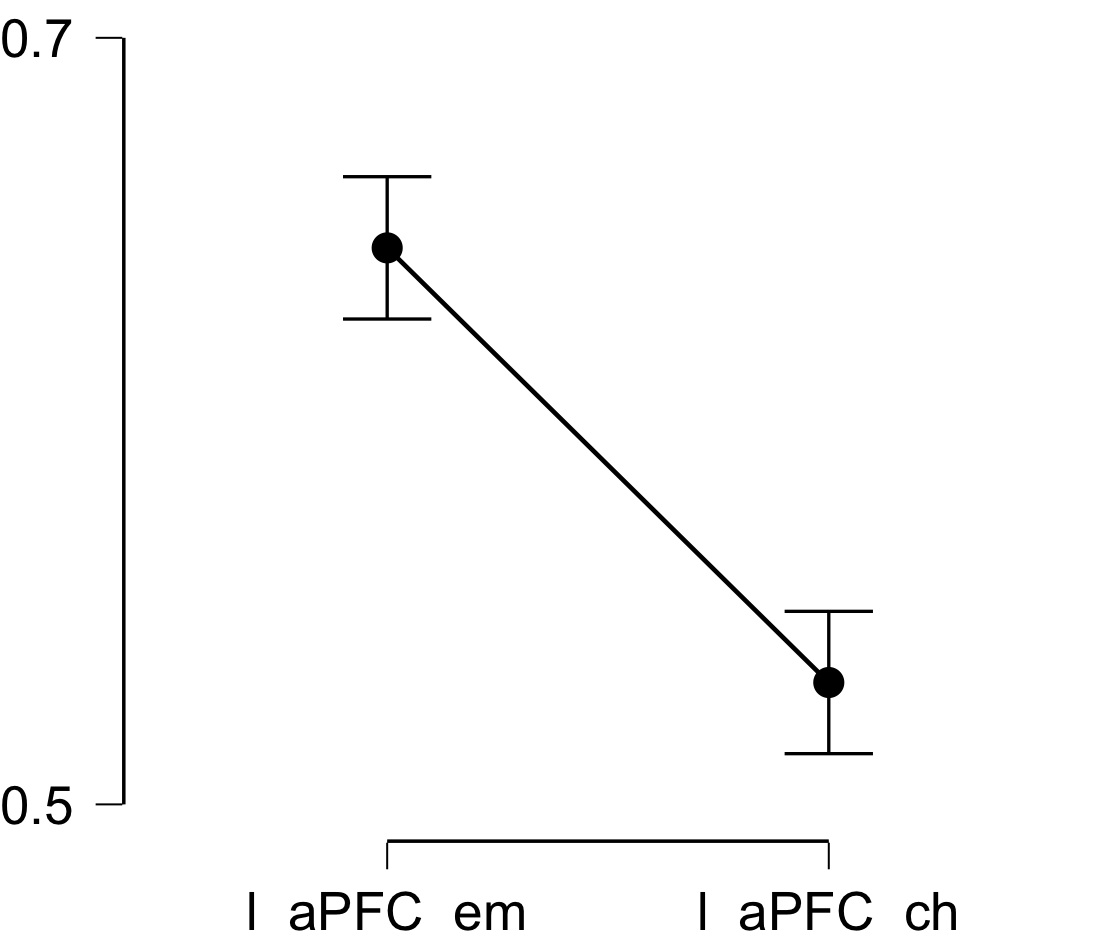
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_aPFC\_em |  | - |  | l\_aPFC\_ch |  | 0.971 |  | 0.578 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_aPFC\_em |  | 30 |  | 0.645 |  | 0.062 |  | 0.011 |  |
| l\_aPFC\_ch |  | 30 |  | 0.532 |  | 0.032 |  | 0.006 |  |
|  | | | | | | | | | |

**Descriptives Plot**



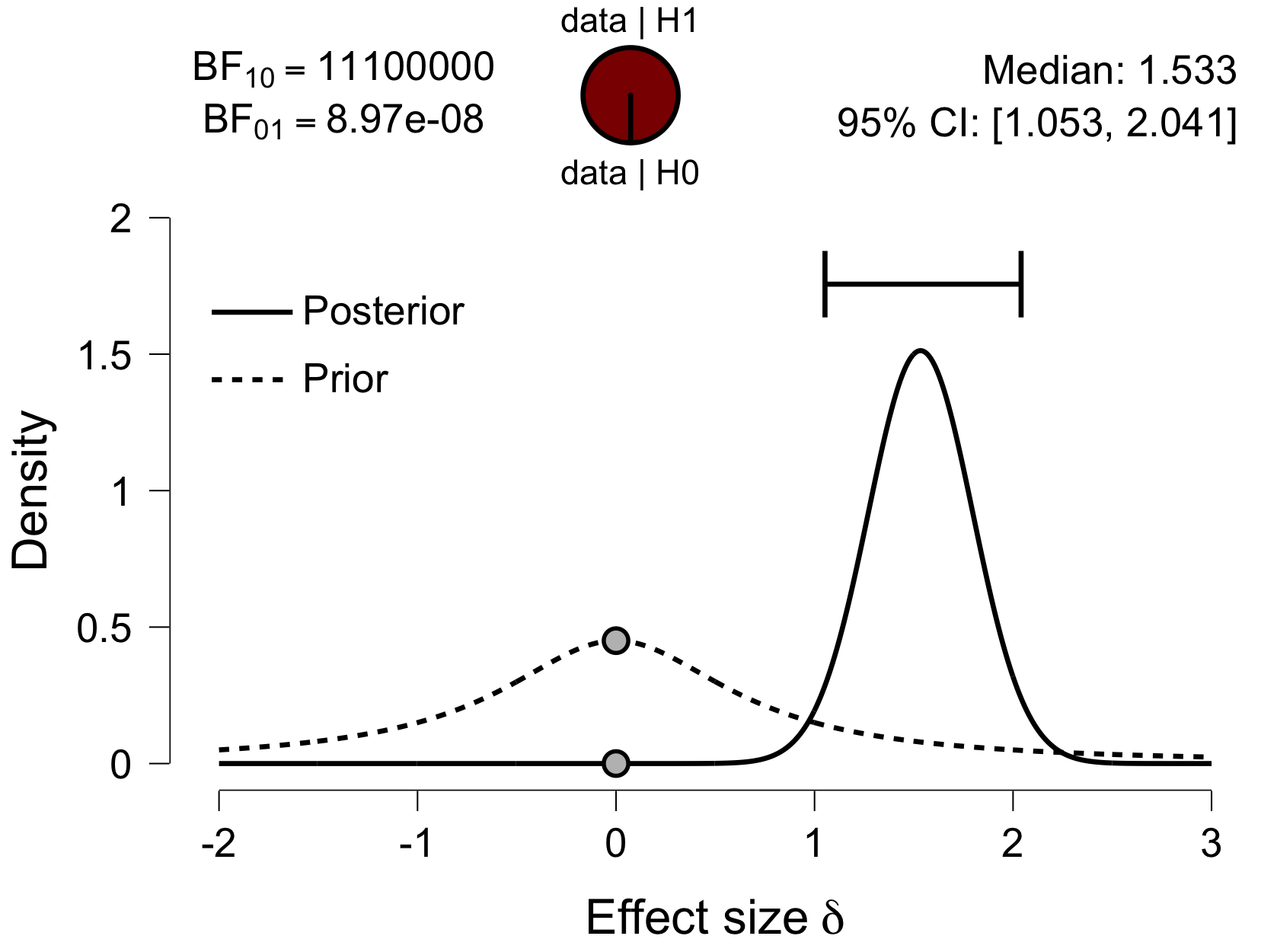
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_aPFC\_em |  | - |  | l\_aPFC\_ch |  | 1.115e +7 |  | 1.101e -11 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_aPFC\_em - l\_aPFC\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_Ins\_em |  | - |  | l\_Ins\_ch |  | 11.051 |  | 29 |  | 6.517e -12 |  | 0.092 |  | 0.008 |  | 0.075 |  | 0.109 |  | 2.018 |  | 1.383 |  | 2.640 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

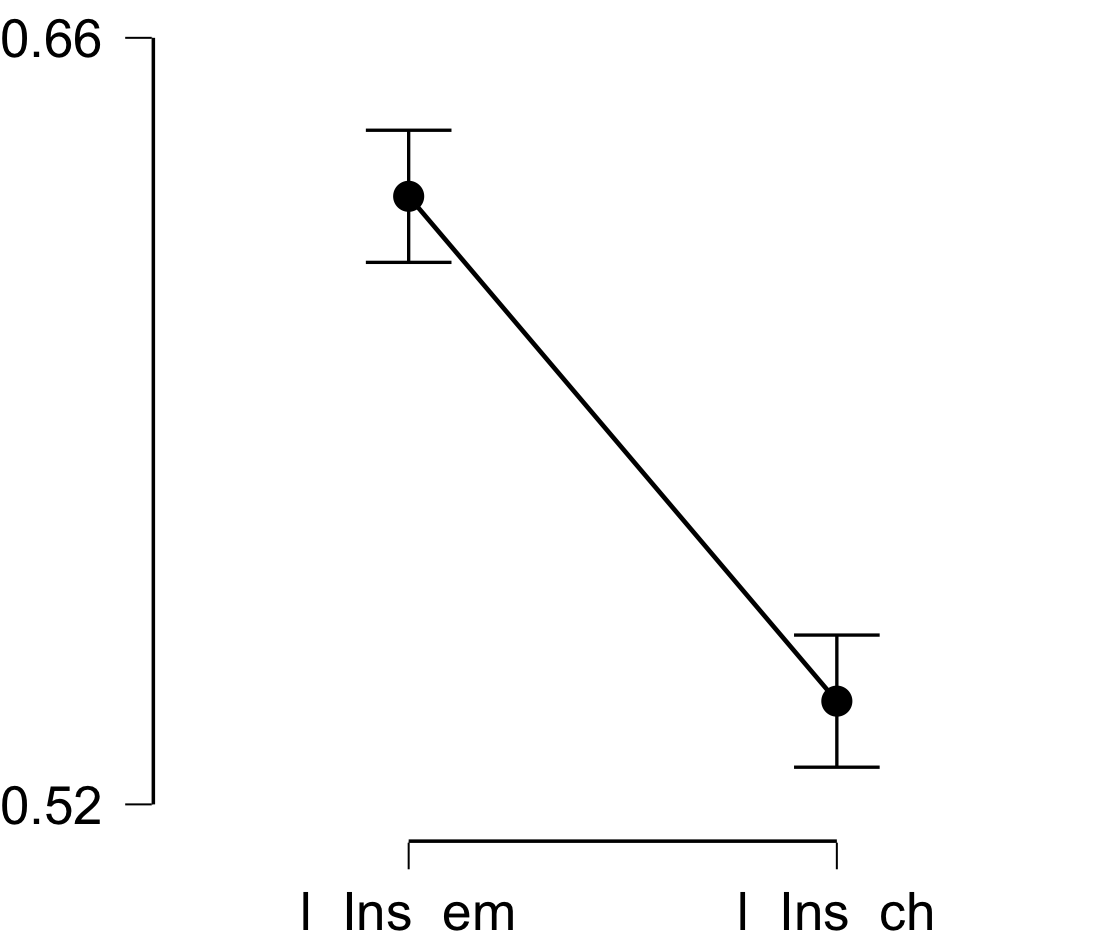
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_Ins\_em |  | - |  | l\_Ins\_ch |  | 0.982 |  | 0.868 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_Ins\_em |  | 30 |  | 0.631 |  | 0.029 |  | 0.005 |  |
| l\_Ins\_ch |  | 30 |  | 0.539 |  | 0.033 |  | 0.006 |  |
|  | | | | | | | | | |

**Descriptives Plot**



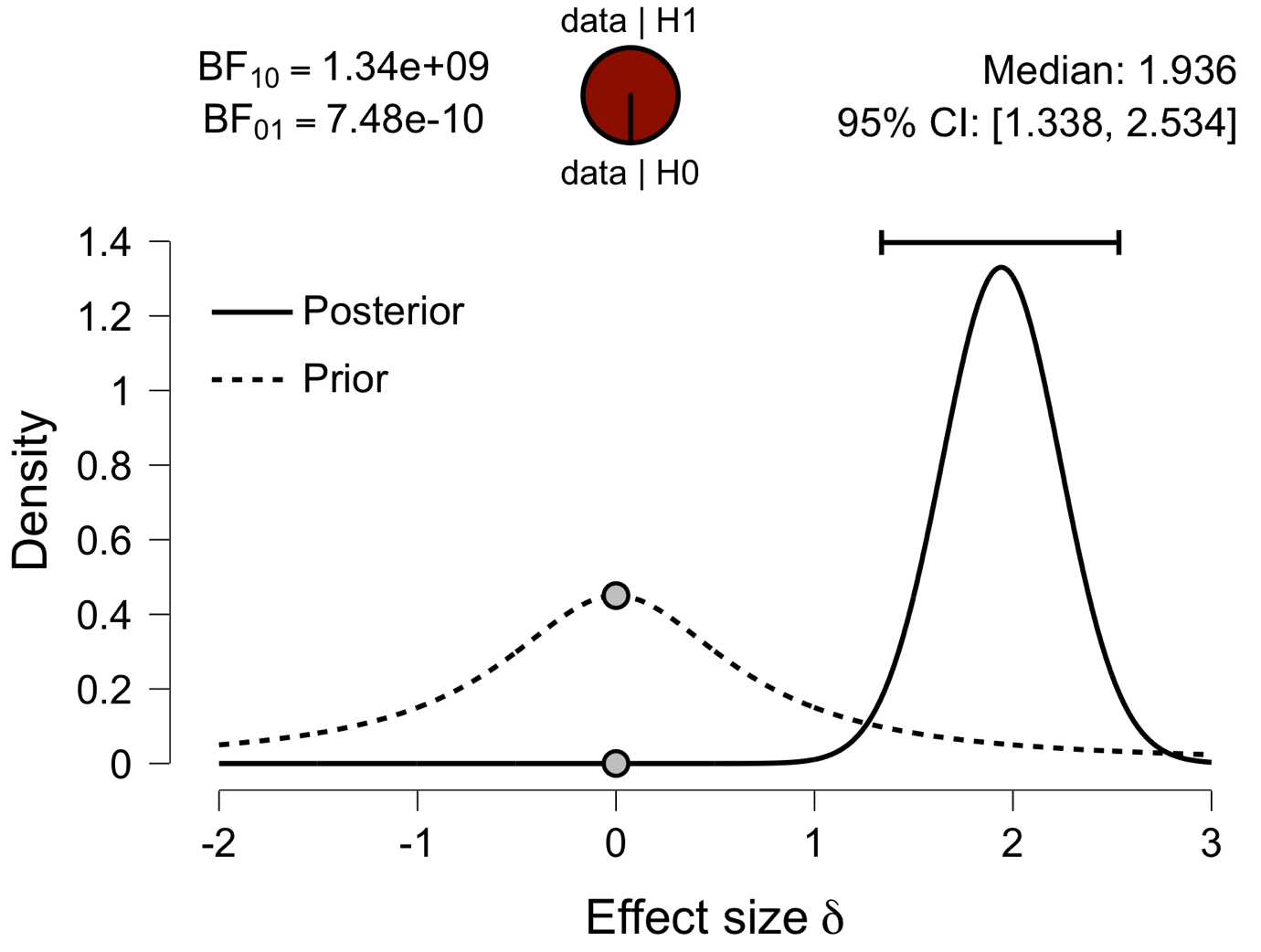
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_Ins\_em |  | - |  | l\_Ins\_ch |  | 1.337e +9 |  | 2.938e -13 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_Ins\_em - l\_Ins\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_ACC\_em |  | - |  | l\_ACC\_ch |  | 10.648 |  | 29 |  | 1.560e -11 |  | 0.129 |  | 0.012 |  | 0.104 |  | 0.154 |  | 1.944 |  | 1.325 |  | 2.551 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

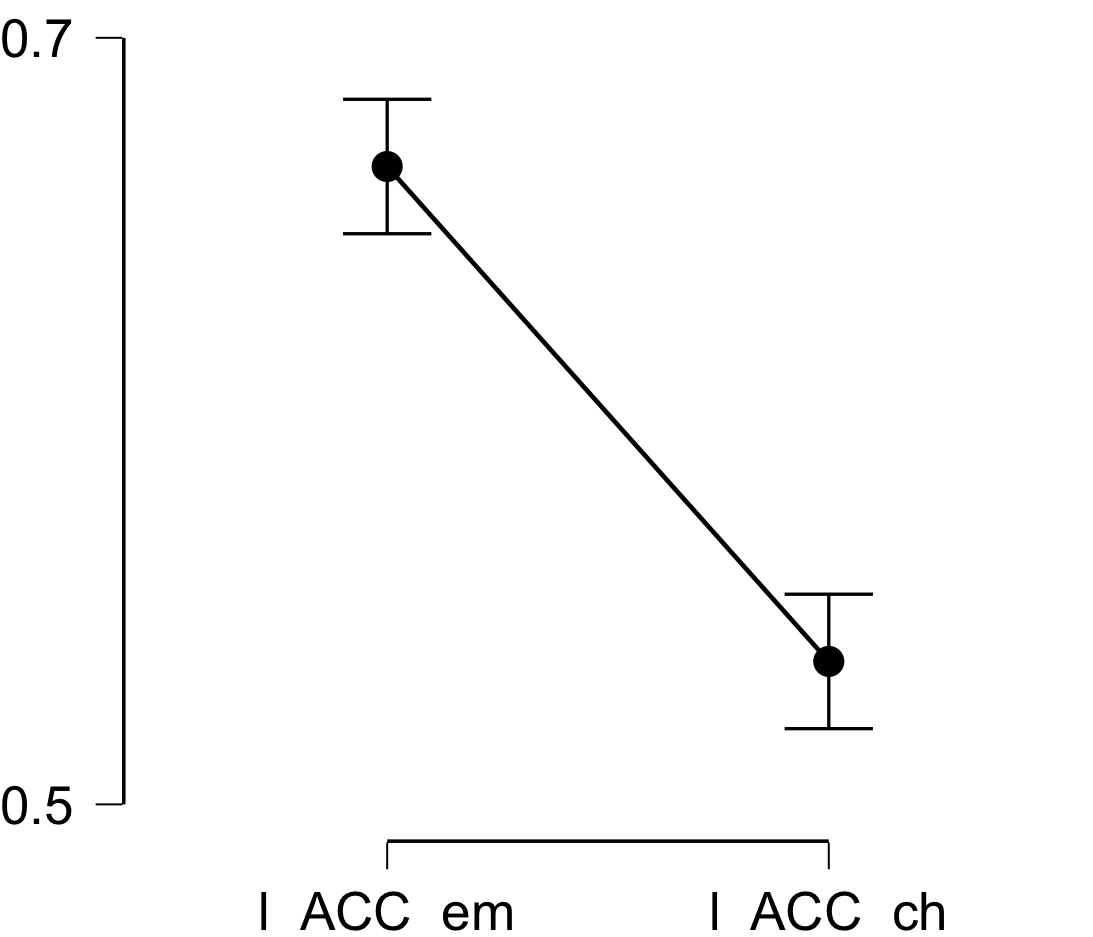
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_ACC\_em |  | - |  | l\_ACC\_ch |  | 0.948 |  | 0.149 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_ACC\_em |  | 30 |  | 0.666 |  | 0.058 |  | 0.011 |  |
| l\_ACC\_ch |  | 30 |  | 0.537 |  | 0.027 |  | 0.005 |  |
|  | | | | | | | | | |

**Descriptives Plot**



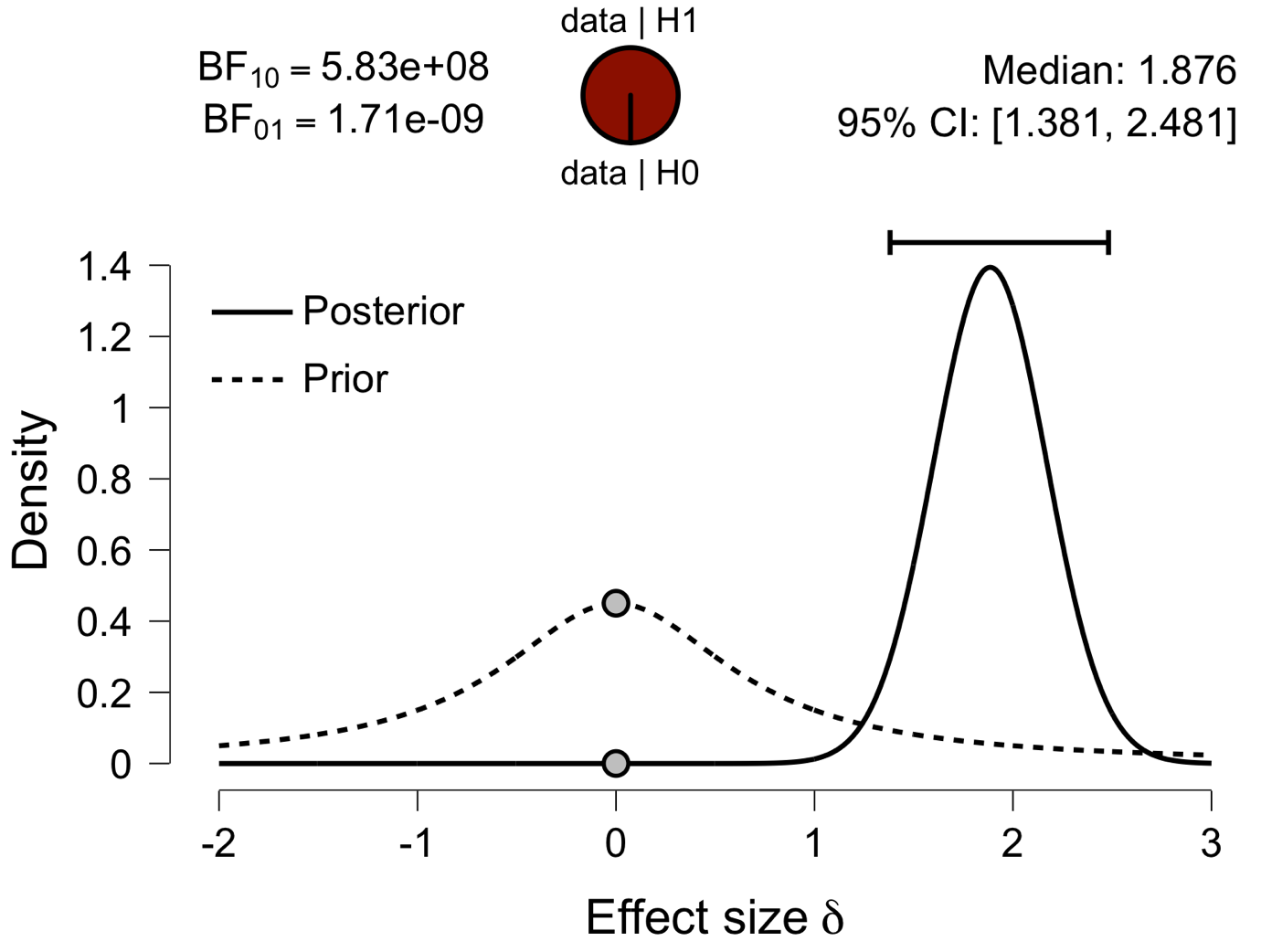
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_ACC\_em |  | - |  | l\_ACC\_ch |  | 5.834e +8 |  | 1.114e -11 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_ACC\_em - l\_ACC\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_PCC\_em |  | - |  | l\_PCC\_ch |  | 9.633 |  | 29 |  | 1.531e -10 |  | 0.089 |  | 0.009 |  | 0.070 |  | 0.108 |  | 1.759 |  | 1.177 |  | 2.328 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

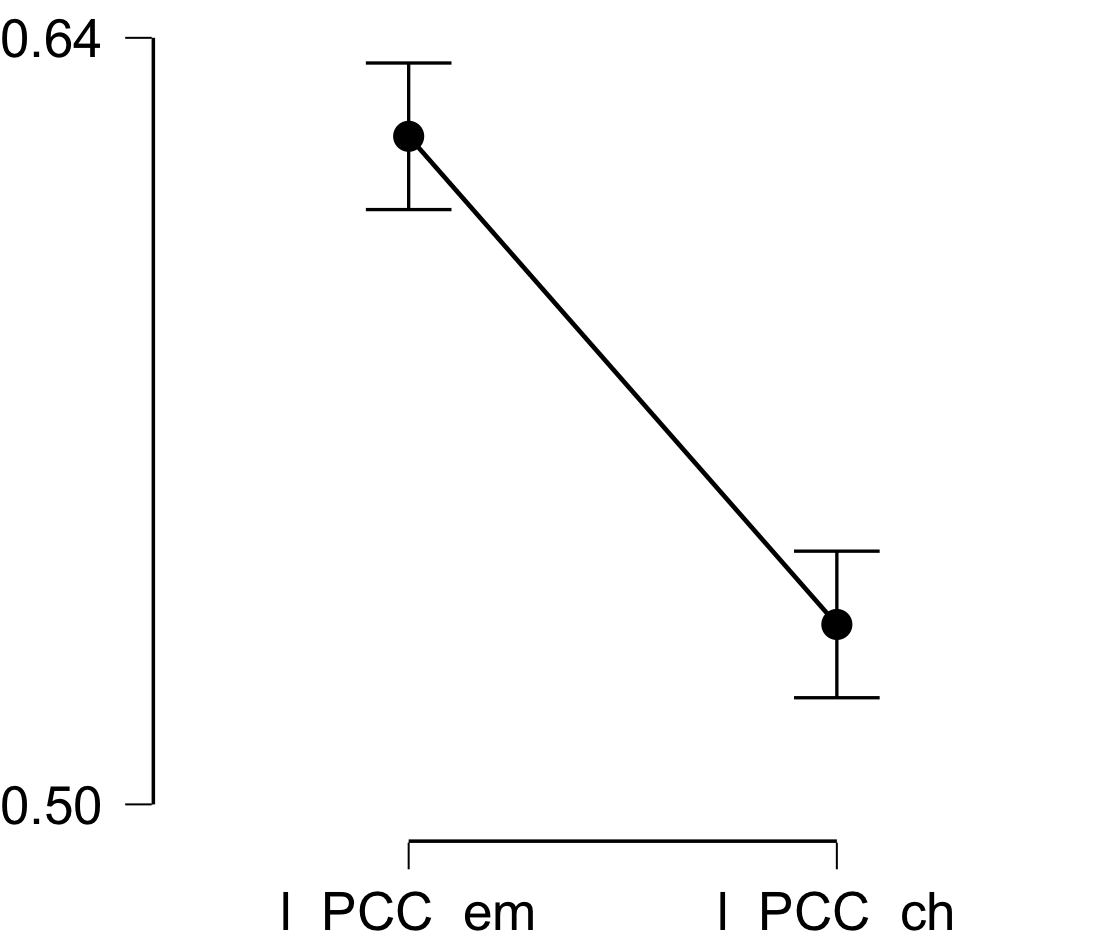
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_PCC\_em |  | - |  | l\_PCC\_ch |  | 0.926 |  | 0.039 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_PCC\_em |  | 30 |  | 0.622 |  | 0.035 |  | 0.006 |  |
| l\_PCC\_ch |  | 30 |  | 0.533 |  | 0.033 |  | 0.006 |  |
|  | | | | | | | | | |

**Descriptives Plot**



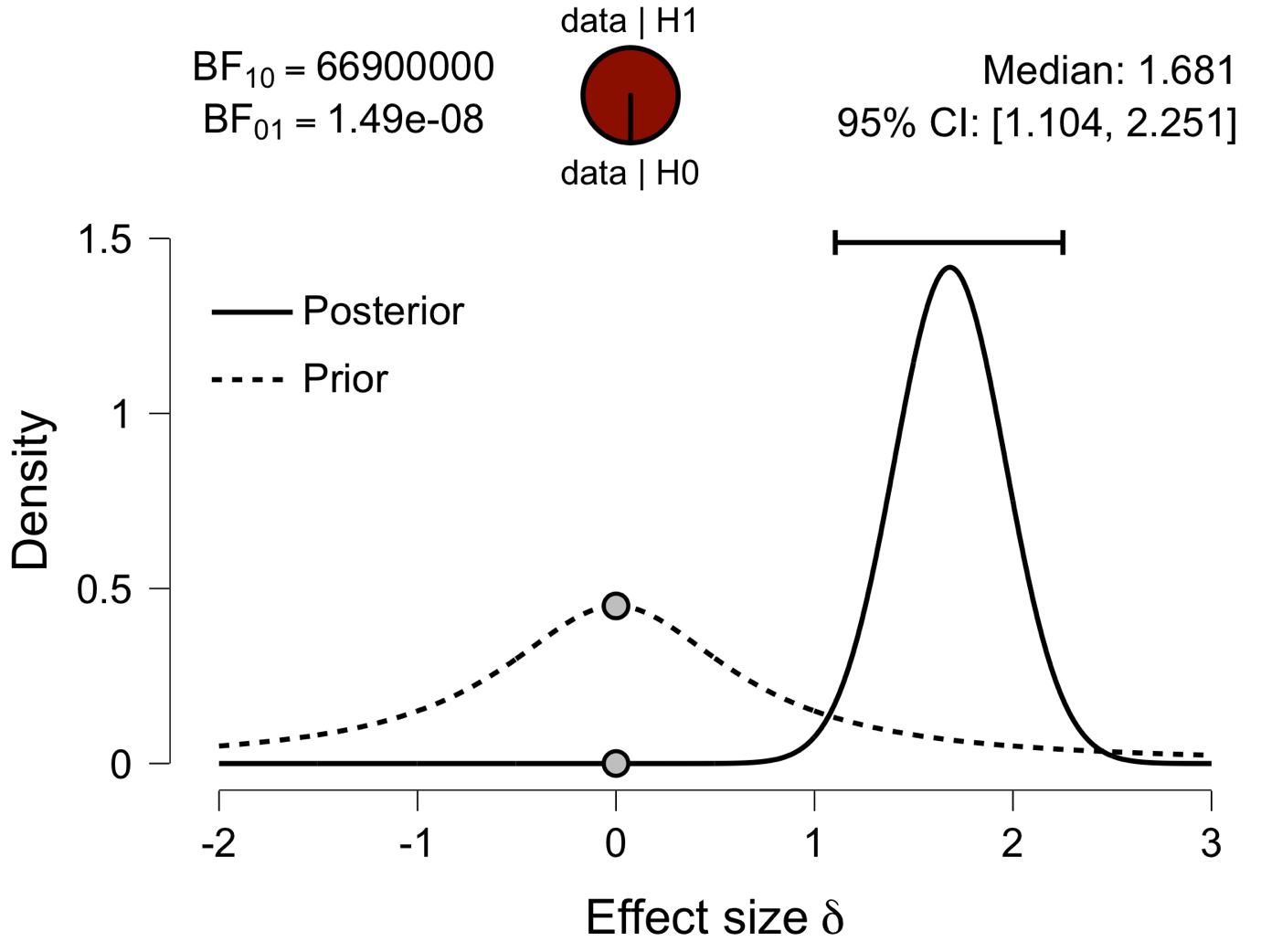
**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_PCC\_em |  | - |  | l\_PCC\_ch |  | 6.690e +7 |  | 2.221e -12 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_PCC\_em - l\_PCC\_ch**

**Prior and Posterior**



**Paired Samples T-Test**

| **Paired Samples T-Test** | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | **95% CI for Mean Difference** | | | |  | | **95% CI for Cohen's d** | | | |
|  | |  | |  | | **t** | | **df** | | **p** | | **Mean Difference** | | **SE Difference** | | **Lower** | | **Upper** | | **Cohen's d** | | **Lower** | | **Upper** | |
| l\_V1\_em |  | - |  | l\_V1\_ch |  | 5.910 |  | 29 |  | 2.037e -6 |  | 0.047 |  | 0.008 |  | 0.031 |  | 0.063 |  | 1.079 |  | 0.621 |  | 1.525 |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Note.*  Student's t-test. | | | | | | | | | | | | | | | | | | | | | | | | | |

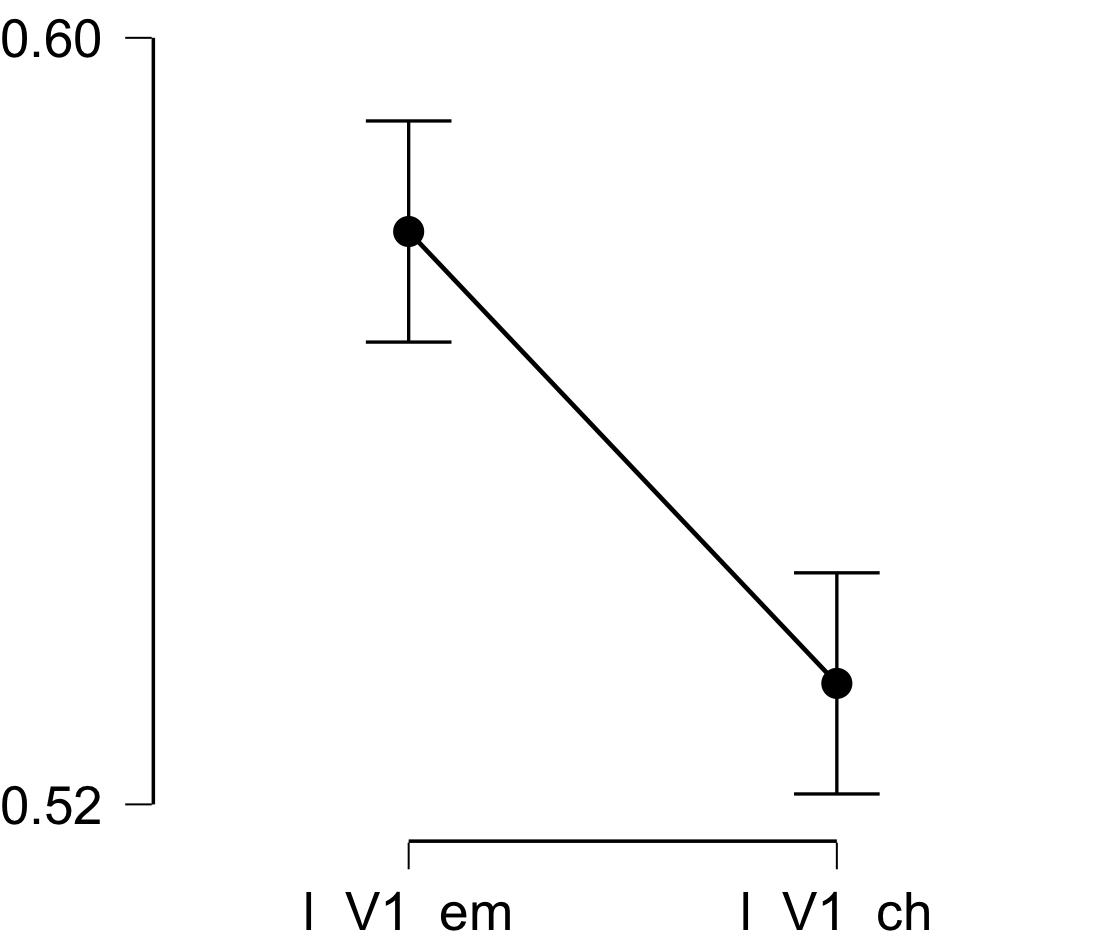
**Assumption Checks**

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| l\_V1\_em |  | - |  | l\_V1\_ch |  | 0.956 |  | 0.237 |  |
|  | | | | | | | | | |
| *Note.*  Significant results suggest a deviation from normality. | | | | | | | | | |

**Descriptives**

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| l\_V1\_em |  | 30 |  | 0.580 |  | 0.028 |  | 0.005 |  |
| l\_V1\_ch |  | 30 |  | 0.533 |  | 0.038 |  | 0.007 |  |
|  | | | | | | | | | |

**Descriptives Plot**



**Bayesian Paired Samples T-Test**

| **Bayesian Paired Samples T-Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **BF₁₀** | | **error %** | |
| l\_V1\_em |  | - |  | l\_V1\_ch |  | 9133.942 |  | 4.984e -7 |  |
|  | | | | | | | | | |

**Inferential Plots**

**l\_V1\_em - l\_V1\_ch**

**Prior and Posterior**

