**Supplemental Digital Content item 4.** Table comparing the three models**.**

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| --- | --- | --- | --- | --- | --- |
|  | **DF** | **AIC** | **BIC** | **LogLikelihood** | **p-value** |
| **Model 1**  AlphaPower ~1 + Session + (1+Session | Subject) + (1 | CNS)*⊥* | 7 | -290.7 | -270.77 | 152.35 | 0.03 |
| **Model 2**  AlphaPower ~1 + Session + etSevo + (1+Session | Subject) + (1 | CNS)*⊥* | 8 | -289.8 | -266.5 | 152.9 | 0.02 |
| **Model 3**  AlphaPower ~1 + Session + (1+Session | Subject) + (1 | CNS) + (Session | Cluster)*⊥* | 8 | -293.6 | -279.62 | 152.4 | 0.03 |

*⊥CNS denotes the inclusion the presence of a brain tumor as a random effect in the model.*

DF: Degrees of freedom

AIC: Akaike Information Criterion

BIC: Bayesian Information Criterion

CNS: Central Nervous System

etSevo: end tidal sevoflurane.