**Table S4.** *Differential Effects of the Relationship Between Neurotrauma (Close-range Blast Exposure, Lifetime mTBI, Military mTBI, and Distant Blast Exposure) and Cognition as a Function of APOE ε33/ε34 Status*

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| Cognitive Composite Measure | Moderation analyses  Close-range blast exposure x *APOE* ε33/ε34 status |
| Memory | ΔR2 = .0302, *F*(1, 270) = 9.66, *p* = .002\*\*  *APOE* ε4+: t = –3.49, B = –.831, *p* < .001\*\*  *APOE* ε4-: t = –.15, B = -.020, *p* = .88 |
| Attention | ΔR2 = .0004, *F*(1, 237) = .101, *p* = .75 |
| Executive Functioning | ΔR2 = .0032, *F*(1, 258) = 1.10, *p* = .29 |
| Lifetime mTBI x *APOE* ε33/ε34 status | |
| Memory | ΔR2 = .0065, *F*(1, 271) = 2.03, *p* = .15 |
| Attention | ΔR2 = .0030, *F*(1, 238) = .846, *p* = .36 |
| Executive Functioning | ΔR2 = .0001, *F*(1, 259) = .025, *p* = .87 |
| Military mTBI x *APOE ε33/ε34 status* | |
| Memory | ΔR2 = .0028, *F*(1, 271) = .857, *p* = .35 |
| Attention | ΔR2 = .0074, *F*(1, 238) = 2.05, *p* = .15 |
| Executive Functioning | ΔR2 = .0013, *F*(1, 259) = .436, *p* = .51 |
| Distant Blast Exposure x *APOE ε33/ε34 status* | |
| Memory | ΔR2 = .0155, *F*(1, 152) = 2.93, *p* = .09 |
| Attention | ΔR2 = .0015, *F*(1, 133) = .248, *p* = .62 |
| Executive Functioning | ΔR2 = .0004, *F*(1, 148) = .185, *p* = .77 |

Note. \* denotes p < .05, \*\*denotes p < .01. CBE = close-range blast exposure, mTBI = mild traumatic brain injury, APOE = apolipoprotein. Bootstrapped regression analyses were used to assess moderation effects of APOE ε4 status on close blast exposure (CBE) and cognition. Significant differential effects were further probed based on *APOE* ε4 status. DBE = distant blast exposure.