

APPENDIX I

Younger adults - Literal sentences

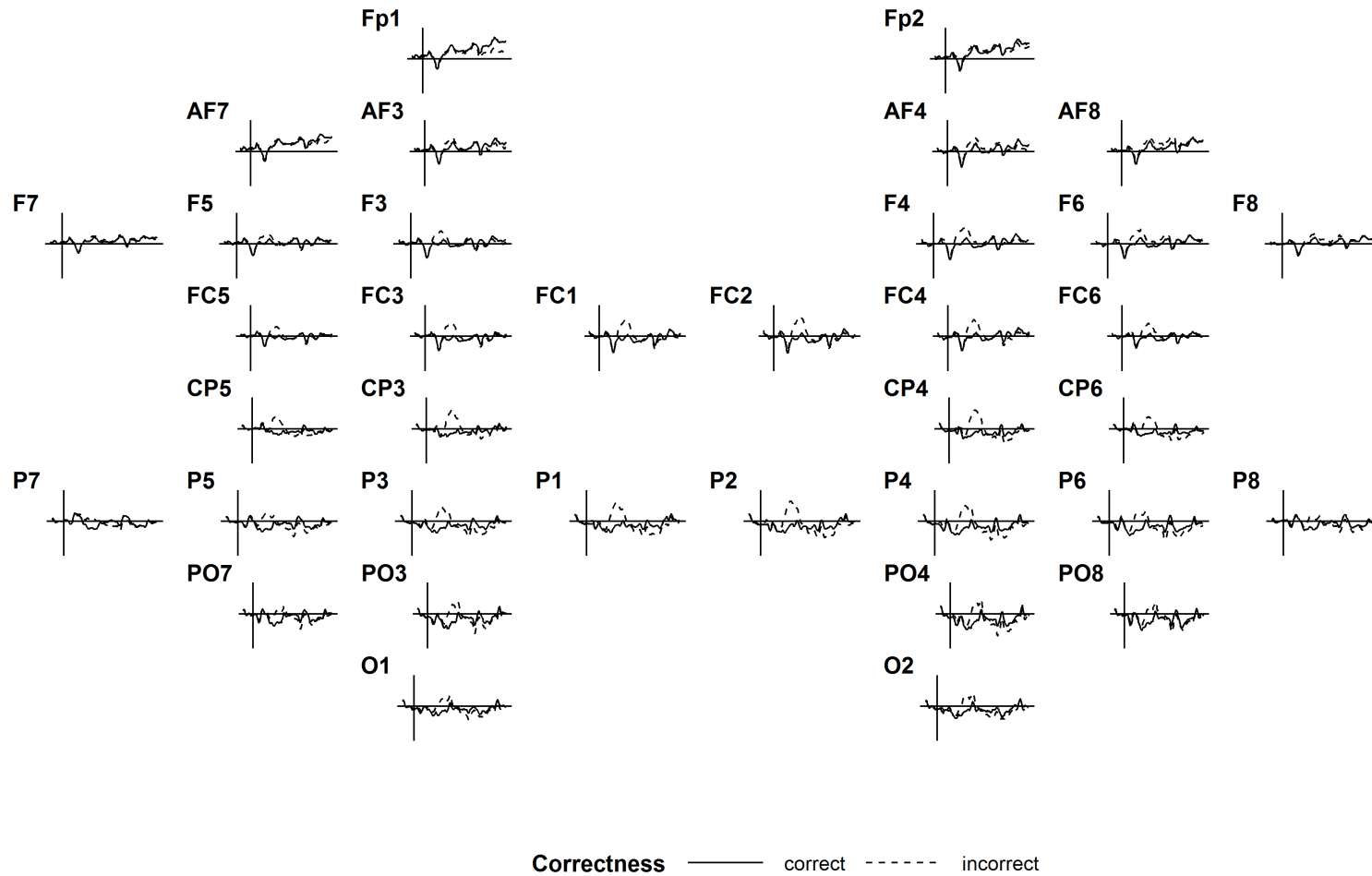
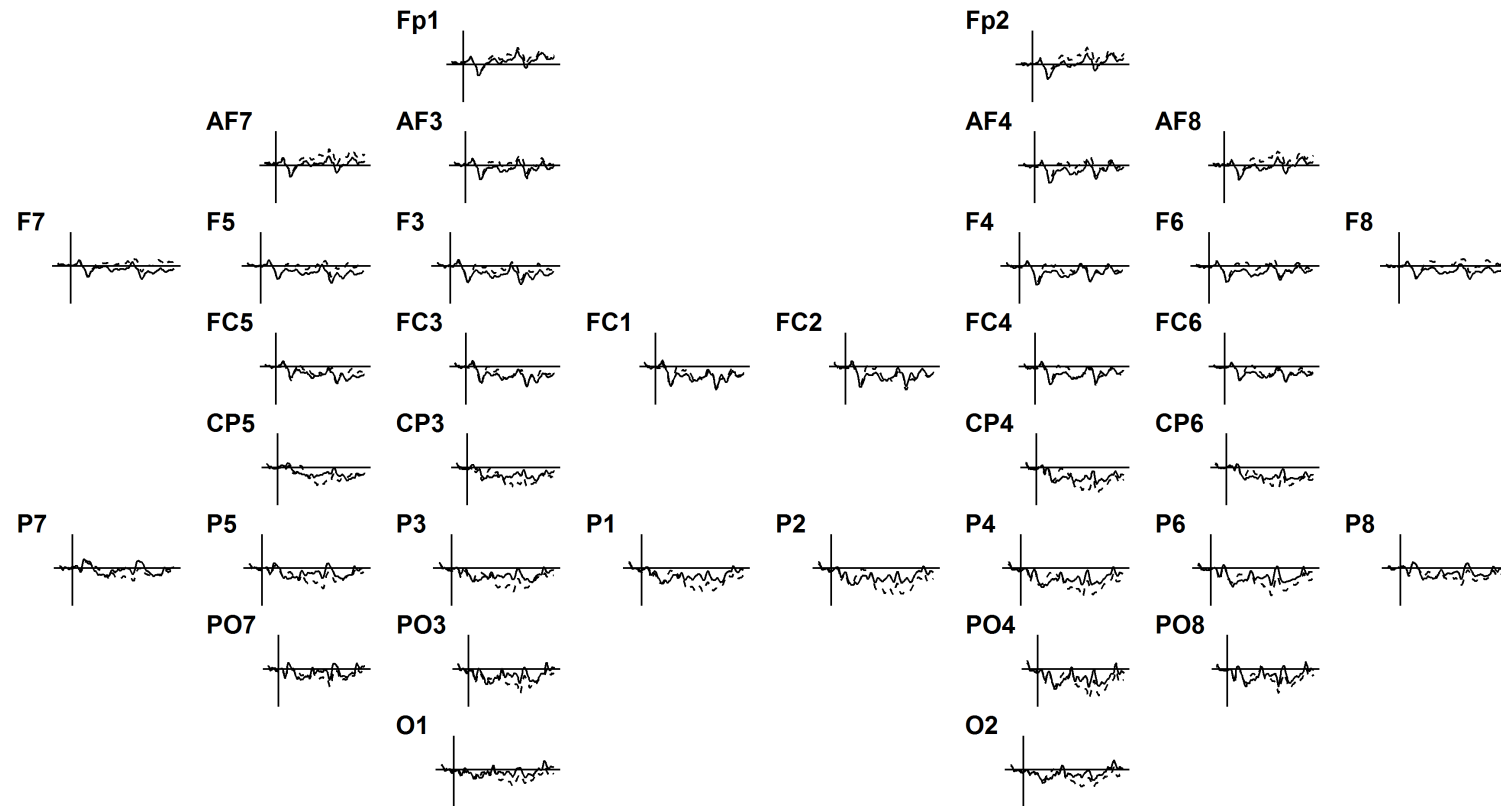


Figure A1. Younger adults' grand average ERPs in the 200-500 ms time window in response to correct (solid line) versus incorrect words (dotted line) in literal sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX I

Younger adults - Idiomatic sentences



Correctness ——— correct - - - - - incorrect

Figure A2. Younger adults' grand average ERPs in the 200-500 ms time window in response to correct (solid line) versus incorrect words (dotted line) in idiomatic sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX I

Elderly adults - Literal sentences

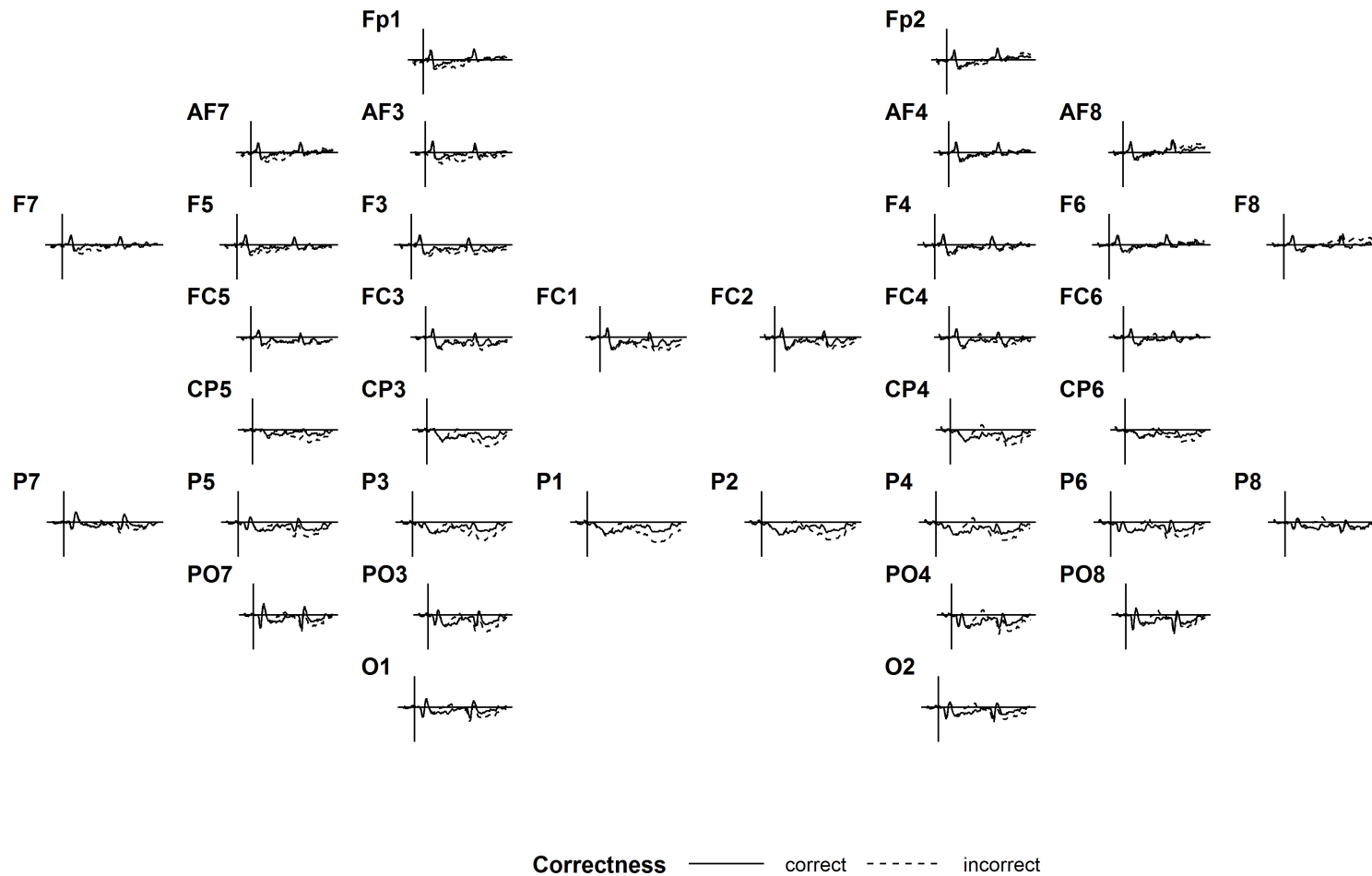
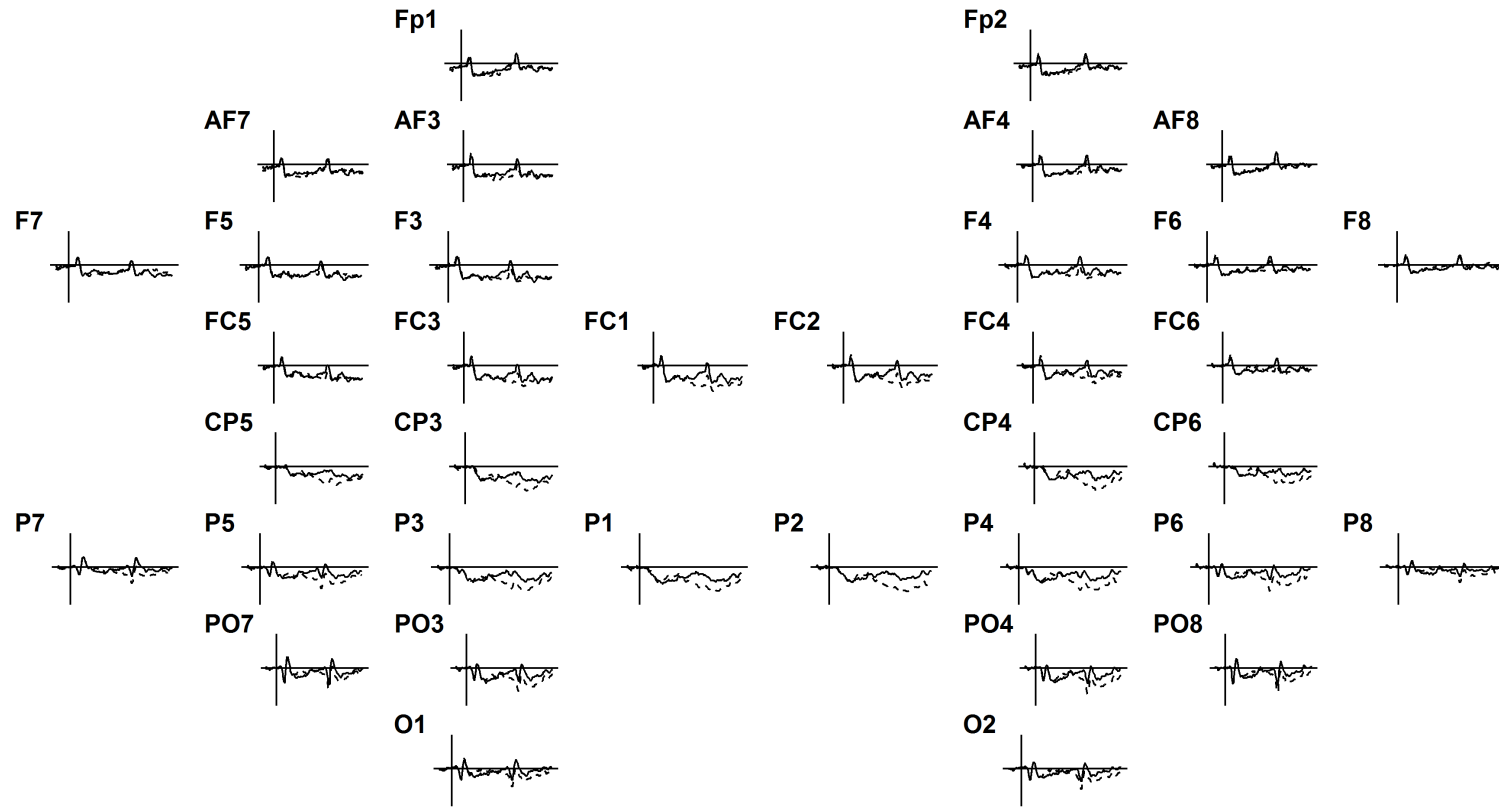


Figure A3. Elderly adults' grand average ERPs in the 200-500 ms time window response to correct (solid line) versus incorrect words (dotted line) in literal sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX I

Elderly adults - Idiomatic sentences



Correctness ——— correct - - - - - incorrect

Figure A4. Elderly adults' grand average ERPs in the 200-500 ms time window in response to correct (solid line) versus incorrect words (dotted line) in idiomatic sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX II

Table A1. Summary of coefficients of the linear mixed effects regressions models fitted to the data of the 200-300 ms time window, the 300-400 ms time window, and 400-500 ms time window

Fixed effects		200-300 ms			300-400 ms			400-500 ms		
Factor		Estimate	SE	t-value	Estimate	SE	t-value	Estimate	SE	t-value
1	Intercept	1.29	0.36	3.54	0.25	0.40	0.63	-0.09	0.40	-0.22
2	Group (elderly adults)	0.24	0.48	0.50	0.68	0.51	1.33	0.98	0.52	1.90
3	Context (predictive)	0.17	0.12	1.41	0.40	0.13	2.94	0.37	0.15	2.52
4	Idiomaticity (idiom)	0.81	0.23	3.64	0.85	0.28	3.00	1.34	0.34	3.93
5	Condition (incorrect)	-0.89	0.21	-4.32	-3.64	0.24	-15.10	-2.69	0.25	-10.64
6	Anteriority (posterior)	0.35	0.07	4.88	0.92	0.08	11.65	0.34	0.08	4.11
7	Hemisphere (right)	0.43	0.07	5.90	-0.19	0.08	-2.38	-0.45	0.08	-5.44
8	Group (senior) * Idiomaticity (idiom) * Condition (incorrect)	-0.71	0.29	-2.44	-2.32	0.32	-7.33	-1.49	0.33	-4.54
9	Verbal fluency	0.05	0.02	2.70	0.05	0.02	2.33	-	-	-
Random effects										
Groups	Factor	Variance	SD	Corr.	Variance	SD	Corr.	Variance	SD	Corr.
10	Intercept	2.62	1.62		2.99	1.73		3.02	1.74	
	Subject									
	Idiomaticity (idiom)	0.85	0.92	-0.08	1.39	1.18	0.02	2.20	1.48	-0.01
11	Intercept	1.60	1.27		2.26	1.51		2.43	1.56	
	Critical word									
	Context (predictive)	1.83	1.35	-0.60	2.26	1.50	-0.55	2.85	1.69	-0.52
12	Residual	43.28	6.58		51.40	7.17		55.43	7.45	

APPENDIX III

Younger adults - Literal sentences

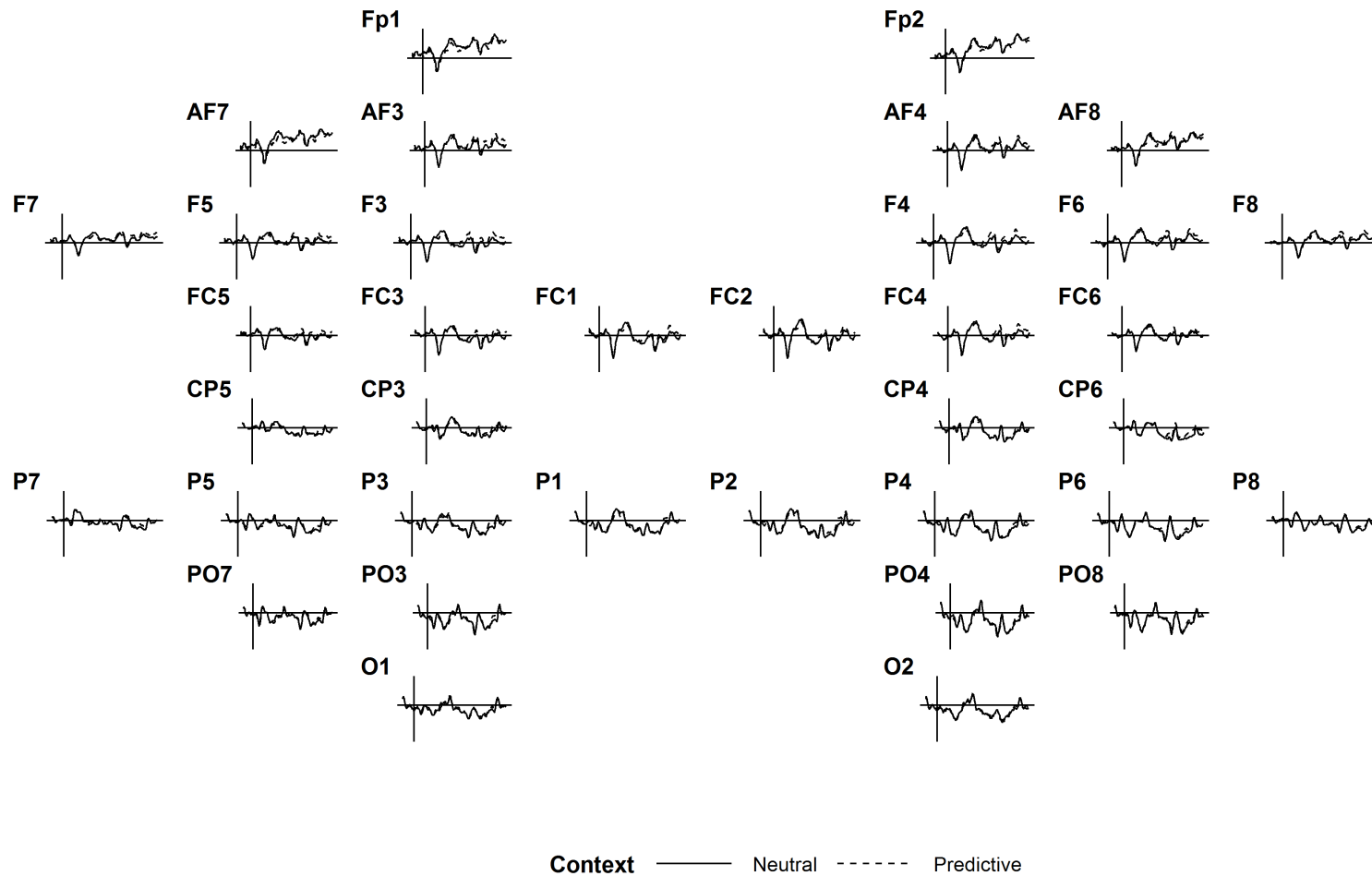


Figure A5. Younger adults' grand average ERPs in the 500-800 ms time window in response to literal sentences preceded by a neutral (solid line) versus a predictive context sentence (dotted line). Voltages are averaged across correct and incorrect sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX III

Younger adults - Idiomatic sentences

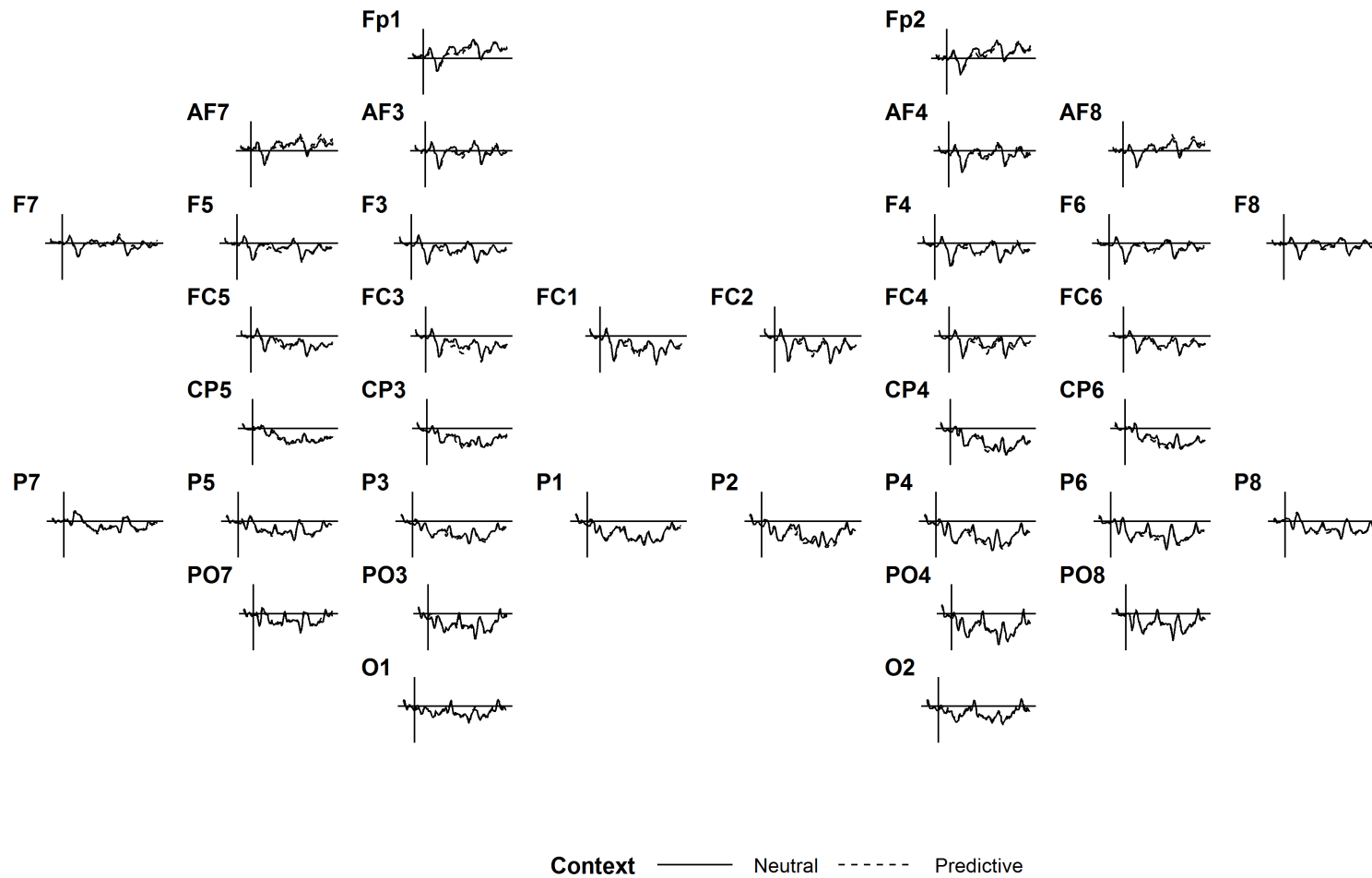


Figure A6. Younger adults' grand average ERPs in the 500-800 ms time window in response to idiomatic sentences preceded by a neutral (solid line) versus a predictive context sentence (dotted line). Voltages are averaged across correct and incorrect sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX III

Elderly adults - Literal sentences

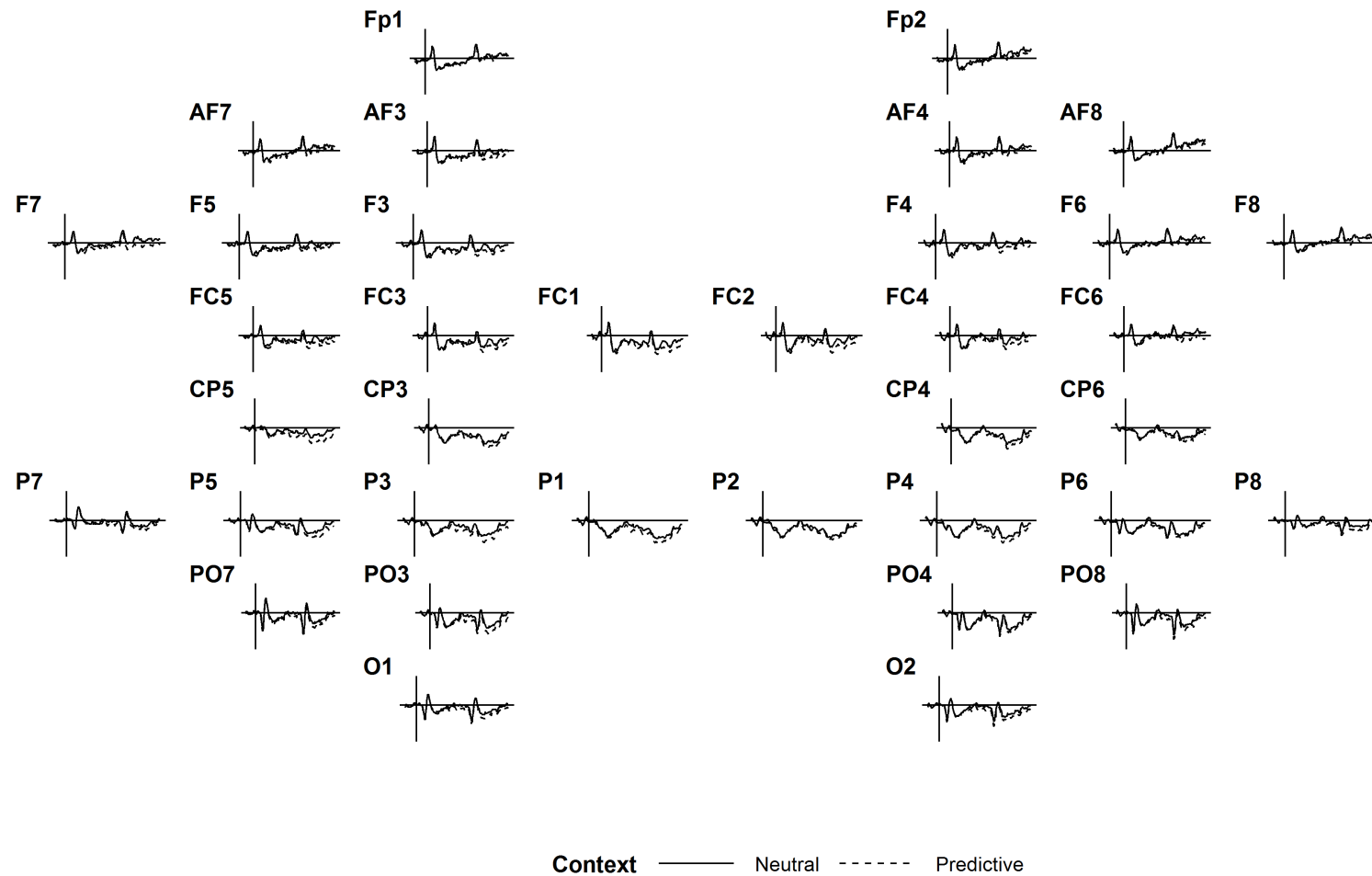


Figure A7. Elderly adults' grand average ERPs in the 500-800 ms time window in response to literal sentences preceded by a neutral (solid line) versus a predictive context sentence (dotted line). Voltages are averaged across correct and incorrect sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX III

Younger adults

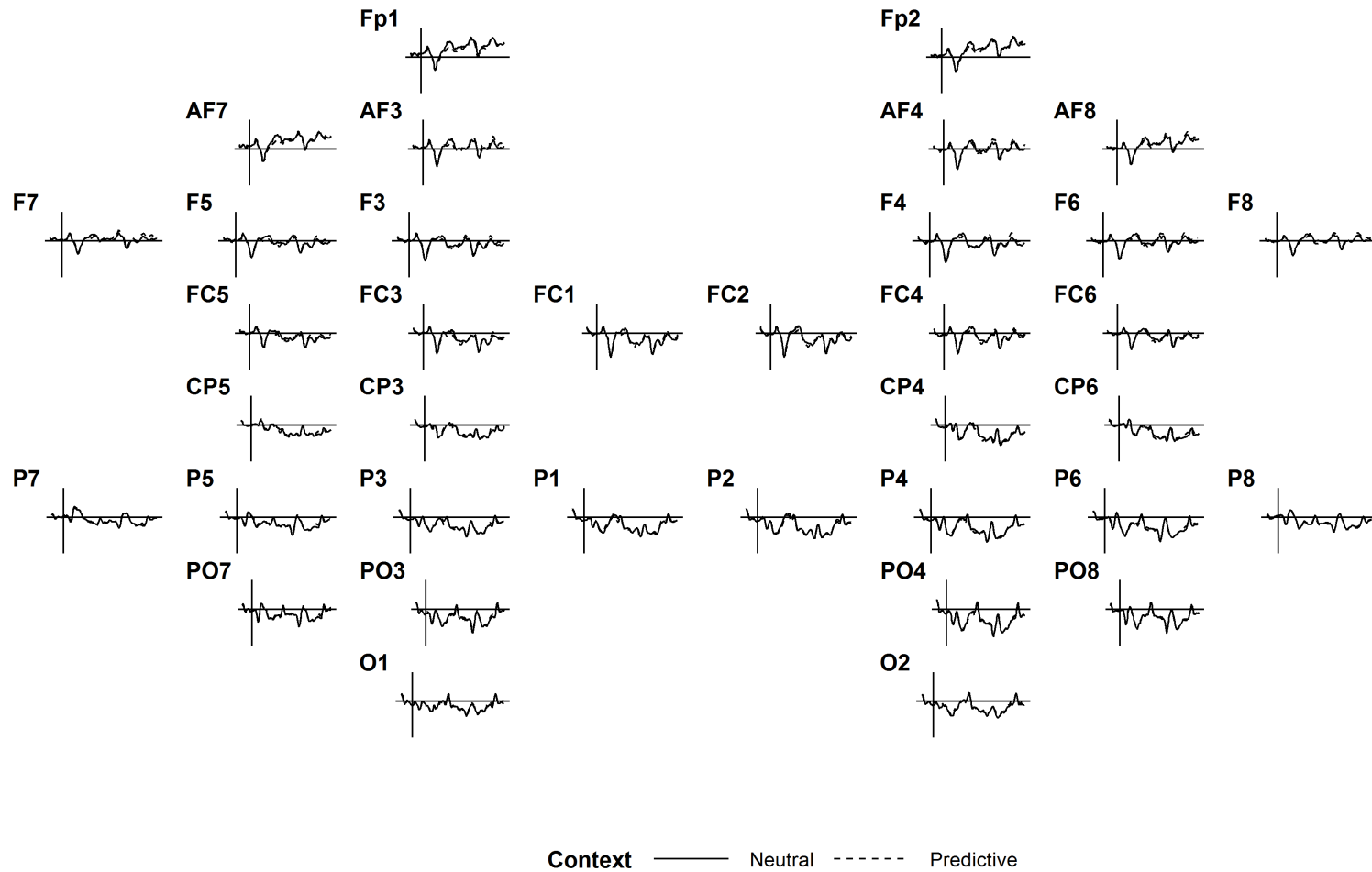


Figure A8. Elderly adults' grand average ERPs in the 500-800 ms time window in response to idiomatic sentences preceded by a neutral (solid line) versus a predictive context sentence (dotted line). Voltages are averaged across correct and incorrect sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX III

Elderly adults

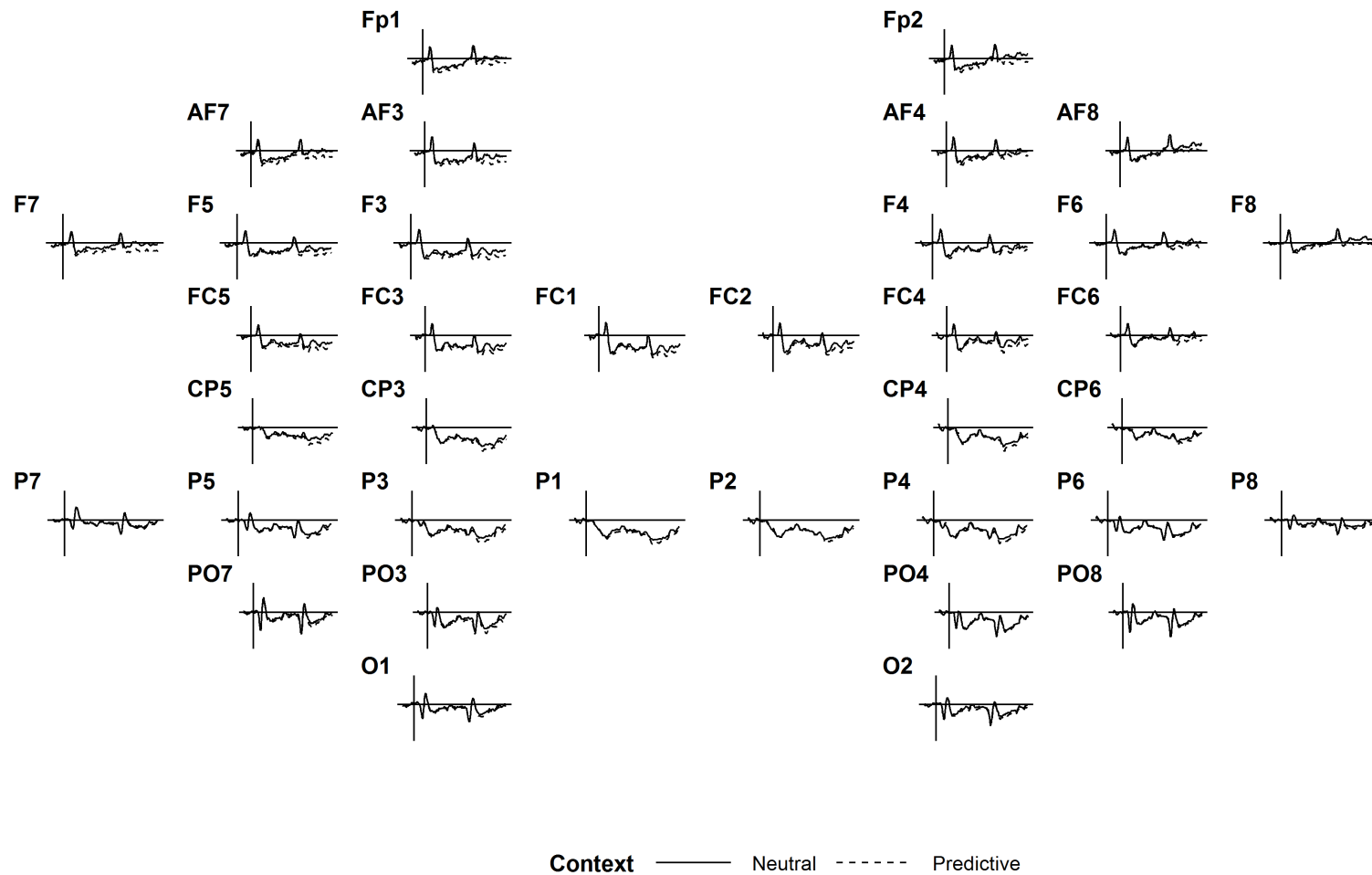


Figure A10. Elderly adults' grand average ERPs in the 800-1100 ms time window in response sentences preceded by a neutral (solid line) versus a predictive context sentence (dotted line). Voltages are averaged across literal and idiomatic sentences and across correct and incorrect sentences. Effects are displayed for each electrode included in the statistical analysis.

APPENDIX III

Table A2. Summary of coefficients of the linear mixed effects regressions models fitted to the data of the 500-800 ms time window and 800-1100 ms time window

Fixed effects					Fixed effects				
500-800 ms					800-1100 ms				
Factor	Estimate	SE	<i>t</i> -value		Factor	Estimate	SE	<i>t</i> -value	
1 Intercept	-0.84	0.36	-2.31		1 Intercept	-1.03	0.38	-2.67	
2 Group (senior)	0.20	0.47	0.42		2 Group (senior)	0.78	0.50	1.57	
3 Context (predictive)	-0.06	0.19	-0.29		3 Context (predictive)	-0.17	0.16	-1.03	
4 Idiomaticity (idiom)	1.34	0.31	4.34		4 Idiomaticity (idiom)	1.38	0.20	6.90	
5 Condition (incorrect)	0.73	0.20	3.72		5 Condition (incorrect)	0.84	0.20	4.26	
6 Anteriority (posterior)	1.47	0.08	18.87		6 Anteriority (posterior)	1.70	0.08	20.49	
7 Group (senior) * Context (predictive)	-0.81	0.31	-2.60		7 Group (senior) * Context (predictive)	0.98	0.17	5.91	
8 Verbal fluency	-	-	-		8 Verbal fluency	0.04	0.02	2.19	
Random effects					Random effects				
Groups	Factor	Variance	SD	Corr.	Groups	Factor	Variance	SD	Corr.
9 Subject	Intercept	2.46	1.57		9 Subject	Intercept	2.91	1.71	
	Idiomaticity (idiom)	1.75	1.32	0.03		Idiomaticity (idiom)	1.65	1.29	-0.08
10 Critical Word	Intercept	1.88	1.37		10 Target	Intercept	1.99	1.41	
	Context (predictive)	2.59	1.61	-0.44		Context (predictive)	2.51	1.58	-0.48
11 Residual		49.92	7.07		11 Residual		56.63	7.53	