Supplement 3: Additional analysis excluding incorrectly answered trials

For our analyses, we excluded all participants in the final analyses with less than 50% data points in each of the experimental conditions. While this procedure affected eight participants when incorrectly answered trials were included, it affected an additional seven participants when incorrectly answered trials were excluded. Thus, the current additional ERP and reaction time analyses were carried out with n = 16 participants.

1. ERP analyses

Adjective

Statistical results: ANOVA with the factors CONTEXT, QUANTIFIER and ROI:

300-400 ms

- CONTEXT: F (1,15) = 15.10; p <.01
- QUANTIFIER: F (1,15) = 0.17; p = .69
- CONTEXT x ROI: F (3,45) = 3.53; p <.05
- QUANTIFIER x ROI: F (3,45) = 1.98; p = .13
- CONTEXT x QUANTIFIER: F (1,15) = 3.85; p = .07
- ROI x CONTEXT x QUANTIFIER: F (3,45) = 9.02; p = .001

	Roi1: Left anterior	**Roi2: Right anterior**	**Roi3: Left posterior**	**Roi4: Right posterior**
CONTEXT X				
QUANTIFIER	F (1,15) = 3.38; p = .09	F (1,15) = 1.67; p = .22	F (1,15) = 4.71; p < .05	F (1,15) = 5.62; p < .05
A vs. B: positive	F (1,15) = 18.62; p < .01	F (1,15) = 13.93; p < .01	F (11,15) = 28.49; p < .001	F (1,15) = 32.09; p < .001
A vs. B: negative	F (1,15) = 0.09; p = .77	F (1,15) = 0.69; p = .42	F (1,15) = 0.07; p = .80	F (1,15) = 0.06; p = .82
CONTEXT	F (1,15) = 13.43; p < .1	F (1,15) = 15.35; p = .001	F (1,15) = 12.17; p < .01	F (1,15) = 15.45; p = .001
QUANTIFIER	F (1,15) = 0.61; p = .45	F (1,15) = 0.30; p = .60	F (1,15) = 0.70; p = .41	F (1,15) = 0.03; p = .87

450-800 ms

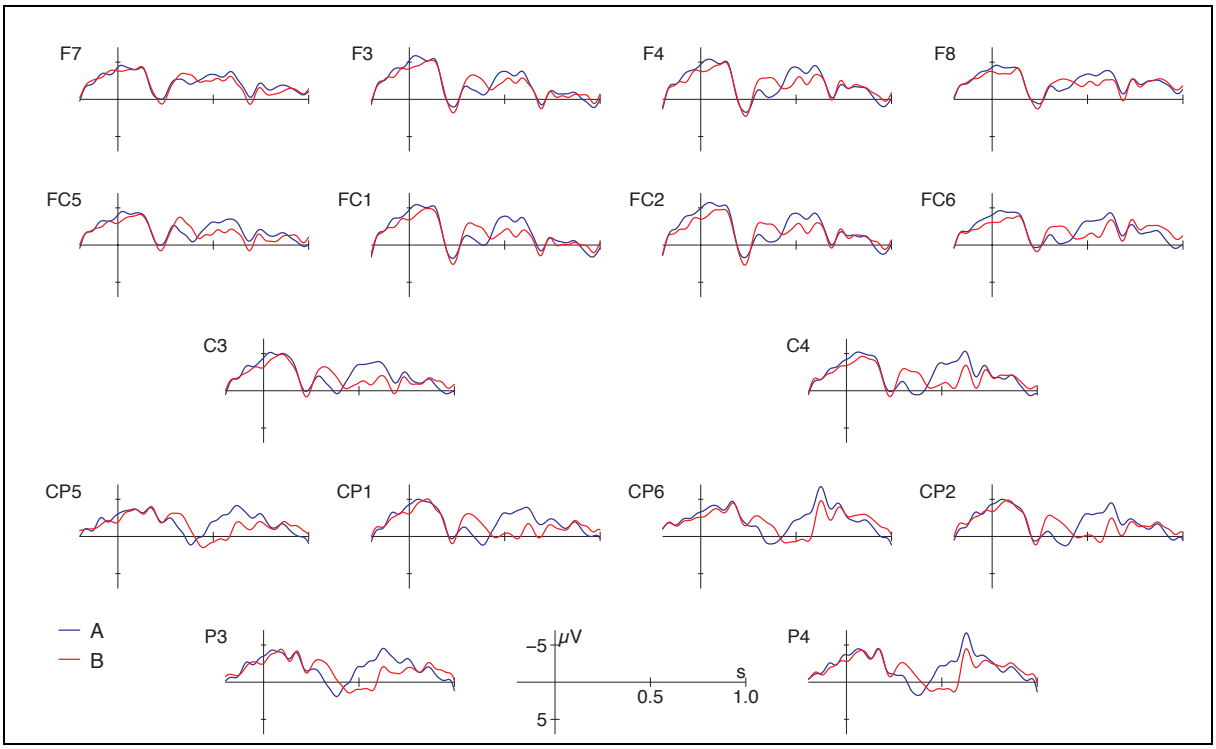
- CONTEXT: F (1,15) = 7.28; p <.05
- QUANTIFIER: F (1,15) = 0.08; p = .79
- CONTEXT x ROI: F (3,45) = 5.08; p <.05
- QUANTIFIER x ROI: F (3,45) = 0.31; p = .82
- CONTEXT x QUANTIFIER: F (1,15) = 6.39; p < .05

  A vs. B: positive: F (1,15) = 10.54; p <.01

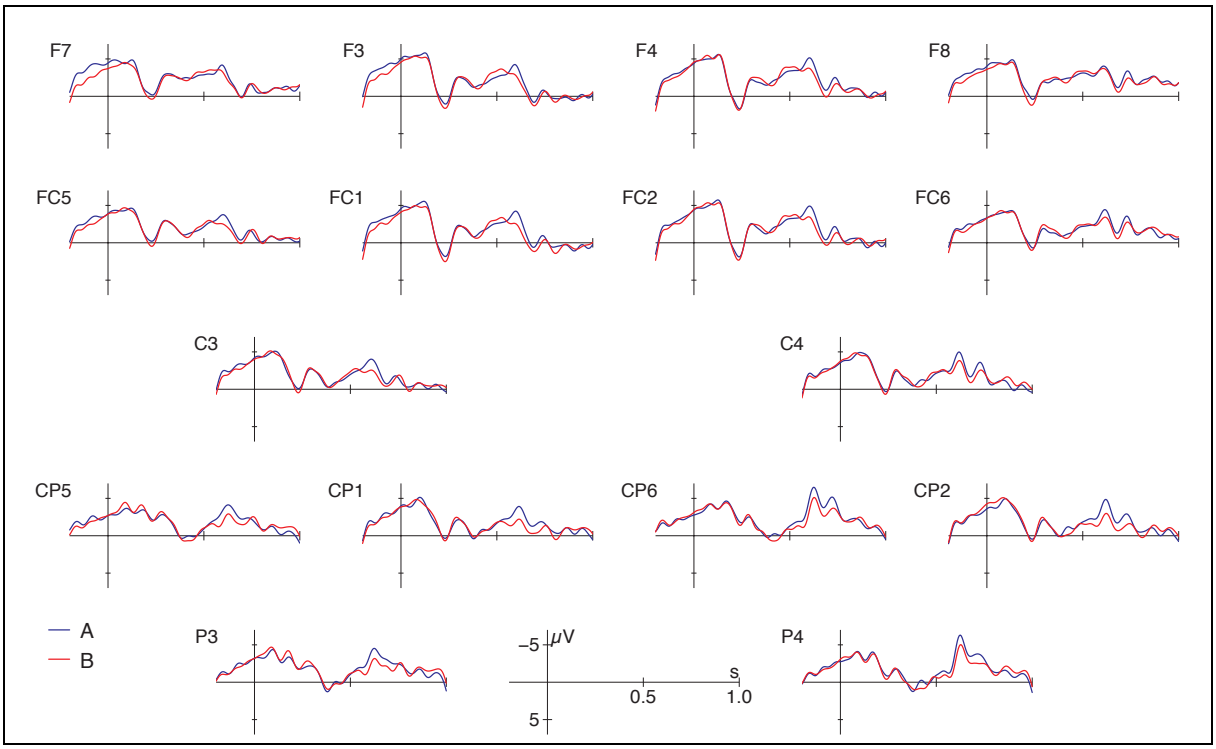
  A vs. B: negative: F (1,15) = 1.79; p = .20
- ROI x CONTEXT x QUANTIFIER: F (3,45) = 1.44; p = .25

	Roi1: Left anterior	**Roi2: Right anterior**	**Roi3: Left posterior**	**Roi4: Right posterior**
CONTEXT X				
QUANTIFIER	F (1,15) = 2.70; p = .12	F (1,15) = 2.11; p = .17	F (1,15) = 11.54; p < .01	F (1,15) = 8.09; p < .05
A vs. B: positive	F (1,15) = 5.99; p < .05	F (1,15) = 6.21; p < .05	F (11,15) = 11.93; p < .01	F (1,15) = 12.06; p < .01
A vs. B: negative	F (1,15) = 0.72; p = .41	F (1,15) = 0.36; p = .56	F (1,15) = 2.06; p = .17	F (1,15) = 2.35; p = .15
CONTEXT	F (1,15) = 4.31; p = .06	F (1,15) = 5.45; p < .05	F (1,15) = 7.28; p < .05	F (1,15) = 8.08; p < .05
QUANTIFIER	F (1,15) = 0.08; p = .79	F (1,15) = 0.11; p = .74	F (1,15) = 0.01; p = .94	F (1,15) = 0.24; p = .63

ERPs from adjective onset, *more than half.* Incorrectly answered trials were excluded from these grand averages.



ERPs from adjective onset, *fewer than half.* Incorrectly answered trials were excluded from these grand averages.



Preposition

300-400 ms

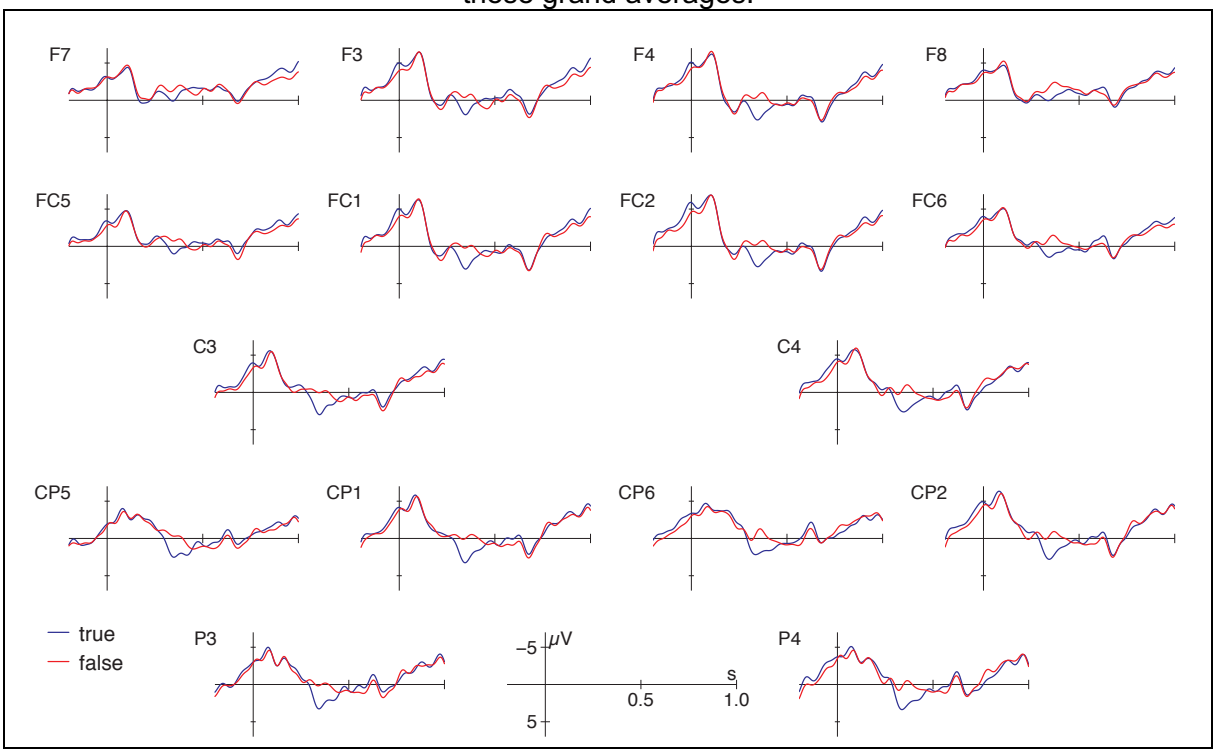
- TRUTH: F (1,15) = 5.33; p <.05
- QUANTIFIER: F (1,15) = 4.35; p = .05
- TRUTH x ROI: F (3,45) = 5.09; p <.01
- QUANTIFIER x ROI: F (3,45) = 1.05; p =.38
- TRUTH x QUANTIFIER: F (1,15) = 1.93; p = .19
- ROI x TRUTH x QUANTIFIER: F (3,45) = 4.19; p < .05

	Roi1: Left anterior	**Roi2: Right anterior**	**Roi3: Left posterior**	**Roi4: Right posterior**
TRUTH X				
QUANTIFIER	F (1,15) = 0.60; p = .45	F (1,15) = 3.11; p = .10	F (1,15) = 1.46; p = .24	F (1,15) = 2.81; p = .11
A vs. B: positive	F (1,15) = 6.03; p < .05	F (1,15) = 10.21; p < .01	F (11,15) = 11.57; p < .01	F (1,15) = 12.35; p < .01
A vs. B: negative	F (1,15) = 0.74; p = .40	F (1,15) = 0.02; p = .88	F (1,15) = 1.02; p = .33	F (1,15) = 0.21; p = .65
TRUTH	F (1,15) = 4.28; p = .06	F (1,15) = 3.38; p = .09	F (1,15) = 7.45; p < .05	F (1,15) = 5.39; p < .05
QUANTIFIER	F (1,15) = 1.69; p = .21	F (1,15) = 6.32; p < .05	F (1,15) = 3.75; p = .07	F (1,15) = 5.55; p < .05

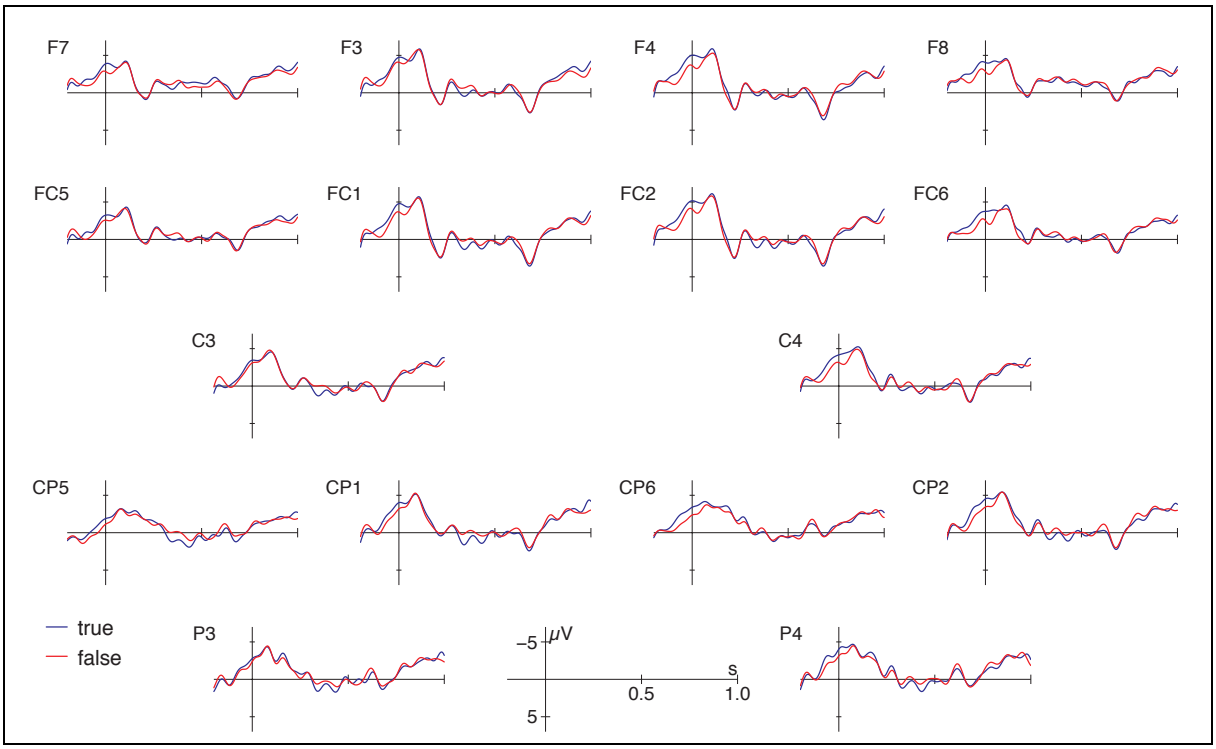
450-800 ms

- TRUTH: F (1,15) = 1.03; p = .33
- QUANTIFIER: F (1,15) = 2.75; p = .12
- TRUTH x ROI: F (3,45) = 0.67; p = .57
- QUANTIFIER x ROI: F (3,45) = 2.64; p =.06
- TRUTH x QUANTIFIER: F (1,15) = 0.11; p = .74
- ROI x TRUTH x QUANTIFIER: F (3,45) = 0.16; p = .93

ERPs from preposition onset, *more than half.* Incorrectly answered trials were excluded from these grand averages.



ERPs from preposition onset, *fewer than half.* Incorrectly answered trials were excluded from these grand averages.



Quantifier

300-400 ms

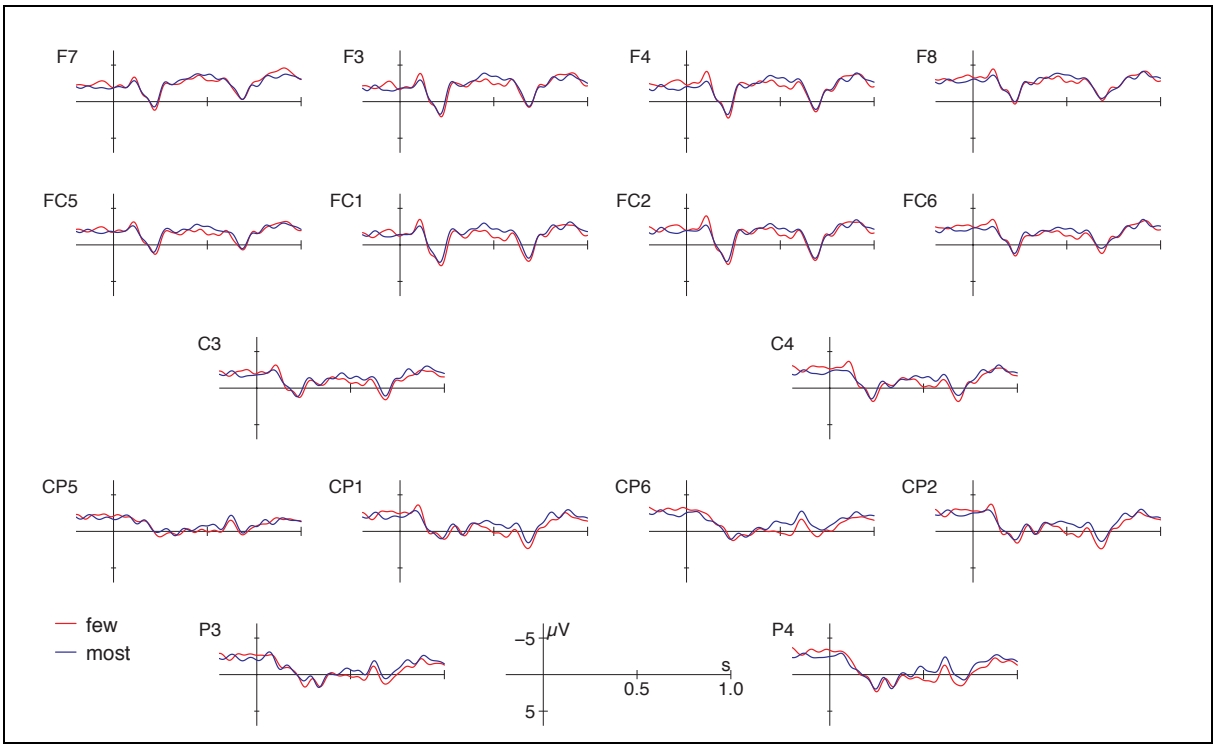
- QUANTIFIER: F (1,15) = 3.07; p = .1
- ROI x QUANTIFIER: F (3,45) = 0.21; p = .89

450-800 ms

- QUANTIFIER: F (1,15) = 3.68; p = .07
- ROI x QUANTIFIER: F (3,45) = 3.73; p = .05

	Roi1: Left anterior	Roi2: Right anterior	Roi3: Left posterior	Roi4: Right posterior
QUANTIFIER	F (1,15) = 0.87; p = .37	F (1,15) = 0.03; p = .86	F (1,15) = 8.06; p < .05	F (1,15) = 7.31; p .05

ERPs from quantifier onset. Incorrectly answered trials were excluded from these grand averages.



2. Reaction times

Behavioural results for the single conditions.

Condition	Reaction times	
	ms	***SE***
APosI	358.8	18.74
APosO	365.1	23.16
ANegI	380.1	23.01
ANegO	384.2	22.45
BPosI	327.4	15.33
BPosO	341.1	14.69
BNegI	351.2	16.21
BNegO	389.5	19.82

Statistical results: ANOVA with the factors CONTEXT, QUANTIFIER and PREPOSITION:

- QUANTIFIER: F (1,15) = 3.57; p = .08
- CONTEXT: F (1,15) = 5.31; p < .05
- PREPOSITION: F (1,15) = 6.67; p < .05
- All other p values > .39