Appendix D: Linear mixed models results excluding all attention check failures

Our primary analyses excluded participants who failed at least two out of three attention checks. However, including participants who failed one attention check may have biased our results. As a robustness check, we conduct the same analyses excluding participants who failed one attention check as well (N = 11).

Table D1. *Fixed and random effects of a model measuring initial belief in false headlines.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	4.10	0.20	20.90	< .001
Image Surprise	-0.00	0.02	-0.12	.907
Realism	0.37	0.01	24.76	< .001
Evidence	0.29	0.01	20.33	< .001
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	1.82		1.35	
Headline (Intercept)	0.57		0.75	

Model equation: initial belief in false headlines ~ 1 + realism + evidence + image surprise + (1 | subject) + (1 | headline)

Table D2. *Fixed and random effects of a model measuring difference in headline belief between the main experiment and Experiment S1.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	4.54	0.21	21.17	< .001
Veracity	0.52	0.41	1.27	.211
Experiment	-0.13	0.13	-1.06	.288
Veracity*Experiment	0.30	0.09	3.41	< .001
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	1.25		1.12	
Headline (Intercept)	1.68		1.30	

Model equation: initial belief ~ 1 + veracity + experiment + veracity* experiment + (1 | subject) + (1 | headline)

Note: Veracity and Experiment were contrast coded such that '0.5' represented true headlines and the main experiment, while -0.5 represented false headlines and Experiment S1.

Table D3. *Fixed and random effects of a model measuring difference in false headline belief before and after corrections.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	4.10	0.21	19.57	< .001
Post-correction phase	-2.07	0.06	-37.30	< .001
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	1.64		1.28	
Headline (Intercept)	0.68		0.83	

Model equation: belief in false headlines ~ 1 + phase + (1 | subject) + (1 | headline)

Table D4. *Fixed and random effects of a model measuring post-correction belief in false headlines.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	1.33	0.16	8.40	< .001
Realism	0.02	0.02	1.22	.222
Evidence	0.01	0.01	0.99	.321
Image surprise	0.00	0.01	0.29	.776
Correction surprise	0.03	0.02	1.90	.058
Initial belief (covariate)	0.17	0.02	9.81	< .001
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	2.60		1.61	
Headline (Intercept)	0.12		0.35	

Model equation: immediate post-correction belief ~ 1 + realism + evidence + image surprise + correction surprise + initial belief + (1 | subject) + (1 | headline)

Table D5. *Fixed and random effects of a model measuring delayed post-correction memory for corrections.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	8.25	0.20	41.88	< .001
Realism	-0.01	0.02	-0.67	.504
Evidence	-0.00	0.02	-0.09	.926
Image surprise	-0.01	0.02	-0.58	.560
Correction surprise	0.01	0.02	0.32	.752
Initial belief (covariate)	-0.16	0.02	-7.84	< .001
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	2.40		1.55	
Headline (Intercept)	0.37		0.61	

Model equation: delayed post-correction memory ~ 1 + realism + evidence + image surprise + correction surprise + initial belief + (1 | subject) + (1 | headline)