Title: Linear mixed models results with co-reference appendix for “People are more susceptible to misinformation with realistic AI-synthesized images that provide strong evidence to headlines”
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Note: The material contained herein is supplementary to the article named in the title and published in the Harvard Kennedy School (HKS) Misinformation Review.

Appendix C: Linear mixed models results with co-reference

The following tables add an additional co-variate (co-reference) which accounts for the proportion of words from the headline that are also depicted in the image. This co-reference score was calculated by providing the following prompt to ChatGPT 4o, via the OpenAI API: "Create a list of objects in the attached image. Then, lemmatize the following sentence and create a list of lemmatized words: [HEADLINE TEXT HERE]. Finally, calculate the percentage of words from the lemmatized word list that also appear in the list of image objects, and output that as the score". The percentage was then z-scored and added as a covariate. The prompt was run on 14th August 2025 with a temperature of 0 and the default system prompt (i.e., “You are a helpful assistant”).

Table C1. *Fixed and random effects of a model measuring initial belief in false headlines.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	0.60	0.22	2.71	.009
Image Surprise	-0.01	0.02	-0.78	.436
Realism	0.38	0.01	26.71	< .001
Evidence	0.29	0.01	21.14	< .001
Co-reference	-0.18	0.23	-0.79	.442
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	0.75		0.86	
Headline (Intercept)	0.49		0.70	
Model equation: initial belief in false headlines ~ 1 + realism + evidence + image surprise + co-reference + (1 | subject) + (1 | headline)				

Table C2. *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	21.33	< .001
Veracity	0.58	0.41	1.41	.168
Experiment	-0.13	0.13	-1.00	.316
Co-reference	-0.25	0.21	-1.19	.243
Veracity*Experiment	0.29	0.09	3.39	< .001
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	1.25		1.12	
Headline (Intercept)	1.65		1.29	
Model equation: initial belief ~ 1 + veracity + experiment + co-reference + 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 C3. *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	4.13	0.21	19.45	< .001
Post-correction phase	-2.01	0.05	-36.86	< .001
Co-reference	-0.13	0.27	-0.49	.634
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	1.72		1.31	
Headline (Intercept)	0.69		0.83	
Model equation: belief in false headlines ~ 1 + phase + co-reference (1 | subject) + (1 | headline)				

Table C4. *Fixed and random effects of a model measuring post-correction belief in false headlines.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	1.44	0.16	8.85	< .001
Realism	0.02	0.01	1.13	.261
Evidence	0.01	0.01	0.63	.529
Image surprise	0.01	0.01	0.56	.578
Correction surprise	0.03	0.02	1.91	.056
Initial belief (covariate)	0.17	0.02	9.97	< .001
Co-reference	-0.06	0.13	-0.46	.652
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	2.73		1.65	
Headline (Intercept)	0.15		0.38	
Model equation: immediate post-correction belief ~ 1 + realism + evidence + image surprise + correction surprise + initial belief + co-reference + (1 | subject) + (1 | headline)				

Table C5. *Fixed and random effects of a model measuring delayed post-correction memory for corrections.*

	Fixed Effects			
	Est/Beta	*SE*	*t*	*p*
Intercept	8.14	0.20	40.41	< .001
Realism	-0.01	0.02	-0.66	.508
Evidence	-0.00	0.02	-0.19	.848
Image surprise	-0.01	0.02	-0.68	.494
Correction surprise	0.00	0.02	0.16	.877
Initial belief (covariate)	-0.16	0.02	-8.04	< .001
Co-reference	0.07	0.21	0.31	.759
	Random Effects			
	Variance		*SD*	
Subject (Intercept)	2.57		1.60	
Headline (Intercept)	0.40		0.63	
Model equation: delayed post-correction memory ~ 1 + realism + evidence + image surprise + correction surprise + initial belief + co-reference (1 | subject) + (1 | headline)				