Appendix: Table S4: Linear regression model robustness check

Note: Post-test is used as the dependent variable, condition (control-treatment) as the dummy, and pretest as covariate. Regression models are displayed by outcome variable.

| Outcome measure | | | | |
|--|----------|--------|-------|--------|
| Real fake news - reliability | | | | |
| Model fit | R | R² | | |
| | 0.792 | 0.627 | | |
| Model Coefficients - Real-Post-Reliability | | | | |
| Predictor | Estimate | SE | t | p |
| Intercept ^a | 0.17 | 0.0964 | 1.76 | 0.079 |
| Harmony Square – Control | -0.364 | 0.0542 | -6.72 | < .001 |
| Real-Pre-Reliability | 0.90 | 0.0273 | 32.92 | < .001 |
| Fictional fake news - reliability | | | | |
| Model fit | R | R² | | |
| | 0.848 | 0.72 | | |
| Model Coefficients - Fake-Post-Reliability | | | | |
| Predictor | Estimate | SE | t | p |
| Intercept ^a | 0.138 | 0.0758 | 1.81 | 0.07 |
| Harmony Square – Control | -0.348 | 0.0483 | -7.19 | < .001 |
| Fake-Pre-Reliability | 0.923 | 0.0227 | 40.73 | < .001 |
| Real fake news - confidence | | | | |
| Model fit | R | R² | | |
| | 0.824 | 0.679 | | |
| Model Coefficients - Real-Post-Confidence | | | | |
| Predictor | Estimate | SE | t | p |
| Intercept ^a | 0.34 | 0.1317 | 2.58 | 0.01 |
| Harmony Square – Control | 0.21 | 0.0524 | 4 | < .001 |
| Real-Pre-Confidence | 0.924 | 0.0247 | 37.41 | < .001 |
| Fictional fake news - confidence | | | | |
| Model fit | R | R² | | |
| | 0.829 | 0.687 | | |
| Model Coefficients - Fake-Post-Confidence | | | | |
| Predictor | Estimate | SE | t | р |
| Intercept ^a | 0.39 | 0.1275 | 3.06 | 0.002 |

| Harmony Square – Control | 0.212 | 0.0525 | 4.04 | < .001 |
|--|----------|--------|--------|--------|
| Fake-Pre-Confidence | 0.921 | 0.0242 | 38.02 | < .001 |
| | | | | |
| Real fake news - sharing | | | | |
| Model fit | R | R² | | |
| | 0.889 | 0.79 | | |
| Model Coefficients - Real-Post-Sharing | | | | |
| Predictor | Estimate | SE | t | р |
| Intercept ^a | 0.0202 | 0.0519 | 0.39 | 0.697 |
| Harmony Square – Control | -0.1611 | 0.0445 | -3.618 | < .001 |
| Real-Pre-Sharing | 0.9505 | 0.0189 | 50.379 | < .001 |
| | | | | |
| Fictional fake news - sharing | | | | |
| Model fit | R | R² | | |
| | 0.905 | 0.82 | | |
| Model Coefficients - Fake-Post-Sharing | | | | |
| Predictor | Estimate | SE | t | р |
| Intercept ^a | 0.077 | 0.0456 | 1.69 | 0.092 |
| Harmony Square – Control | -0.1499 | 0.0407 | -3.69 | < .001 |
| Fake-Pre-Sharing | 0.9388 | 0.017 | 55.27 | < .001 |

^a Represents reference level