

Additional data for

Van Berkum, J.J.A., Brown, C.M., Zwitserlood, P., Kooijman, V., & Hagoort, P. (in press). Anticipating upcoming words in discourse: Evidence from ERPs and reading times. *Journal of Experimental Psychology: Learning, Memory, & Cognition*.

The 74 critical items used in the above paper were part of a larger set of 120 items that also included somewhat less predictive stories (cloze value of the discourse-predictable word between 50% and 75%). This larger set contained an equal number of discourse-predictable common- and neuter-gender nouns. The ERP effects reported for the critical 74 items were also observed for that larger gender-balanced set, albeit in somewhat attenuated form. The below Table 1* and Figure 2* are the 120-item counterparts of Table 1 and Figure 2 in the paper. They reveal a similar although somewhat attenuated pattern of results. The attenuation makes sense, because the average item is weaker.

Table 1*

ANOVAs on mean ERP amplitude in the 50-250 ms after inflection onset, in discourse (Experiment 1, for all 120 items).

<i>Source</i>	<i>df</i>	<i>F</i>	<i>MSE</i>	<i>P</i>	
<i>Midline ANOVA (5 electrodes)</i>					
PC	1,23	3.82	2.24	.063	
PC x El	4,92	0.26	0.36	.736	
<i>Quadrant ANOVA (2 x 2 x 5 electrodes)</i>					
PC	1,23	5.40	5.88	.029 *	
PC x An	1,23	0.16	2.84	.697	
PC x He	1,23	1.64	1.46	.213	
PC x An x He	1,23	0.38	0.23	.542	
PC x An x He x El	4,92	0.25	0.04	.833	
<i>Simple main effects of Prediction Consistency for each electrode quadrant</i>					
LA	+0.33	1,23	5.50	1.16	.028 *
RA	+0.49	1,23	4.57	3.12	.043 *
LP	+0.20	1,23	0.91	2.66	.349
RP	+0.44	1,23	3.35	3.47	.080

Table note: For the midline and quadrant ANOVAs, only effects involving Prediction Consistency are reported: PC = Prediction Consistency (consistent, inconsistent), An = Anteriority (anterior, posterior), He = Hemisphere (left, right), El = Electrode. Also shown is the simple main effect of Prediction Consistency, and the associated inconsistent - consistent amplitude difference in μV , for each electrode quadrant: LA = left-anterior, RA = right-anterior, LP = left-posterior, RP = right-posterior.

Figure 2*. Inflections in discourse (Experiment 1; for all 120 items). Grand average ERP waveforms time-locked to acoustic onset of the critical adjective inflections in discourse, for inflectional suffixes that were consistent (solid) or inconsistent (dotted) with the gender of the discourse-predictable noun. Shown here are the *pooled data for all 120 items*, including both the 74 highly predictable items reported on in the JEP:LMC 2005 paper (discourse-predictable noun cloze > 75%; see published Figure 2 for the associated data) and 56 somewhat less predictable items (discourse-predictable noun cloze between 50% and 75%).

