

Spanish 102 Sentence Reading Task Results

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Overview

Table 3 shows the results of each t-test in which tap duration production is compared from pre to post test. The results suggest that the duration of taps by participant P1E fell by 20.88 (95% CI 17.85 - 23.9), as determined by a paired t-test ($t(65) = -13.789$, $p < .005$). The same trend was observed in P2E: tap duration decreased by 24.69 (95% CI 18.08 - 31.29), as determined by a paired t-test ($t(66) = -7.46$, $p < .005$), and P3E, whose tap duration decrease by 10.37 (95% CI 8.57 - 12.18), as determined by a paired t-test ($t(66) = -11.488$, $p < .05$).

Table 4 shows an analogous analysis in trill production in which pre-test duration was compared to post-test duration. P1E duration increased by 78.48 (95% CI 72.02 - 84.94; $t(49) = 24.42$, $p < .005$). P2E's trill duration increased by 50.16 (95% CI 38.98 - 61.35; $t(48) = 9.02$, $p < .005$), and P3E's trill duration increased by 31.66 (95% CI 22.53 - 40.79; $t(49) = 6.967$, $p < .005$).

Plots

Here are a few boxplots by participant. These plots show the distribution of responses per participant in both taps (Figure 1) and trills (Figure 2) between the pre and post tests.

Table 1: Average duration of tap productions during pre and post-tests per participant

time	P1E	P2E	P3E
PRE	43.23	47.93	34.66
POST	22.41	23.39	24.24

Table 2: Average duration of trill productions during pre and post-tests per participant

time	P1E	P2E	P3E
PRE	40.75	70.28	72.00
POST	119.04	120.35	103.66

Table 3: Results of Paired t-tests of taps comparing duration during pre and post tests

Participant	df	p_val	t_val	estimate	ci_lo	ci_hi
P1E	65	0	-13.789	-20.879	-23.903	-17.855
P2E	66	0	-7.460	-24.687	-31.294	-18.079
P3E	66	0	-11.488	-10.373	-12.176	-8.570

Figure 1: Productions of taps per participant during the pre and post test

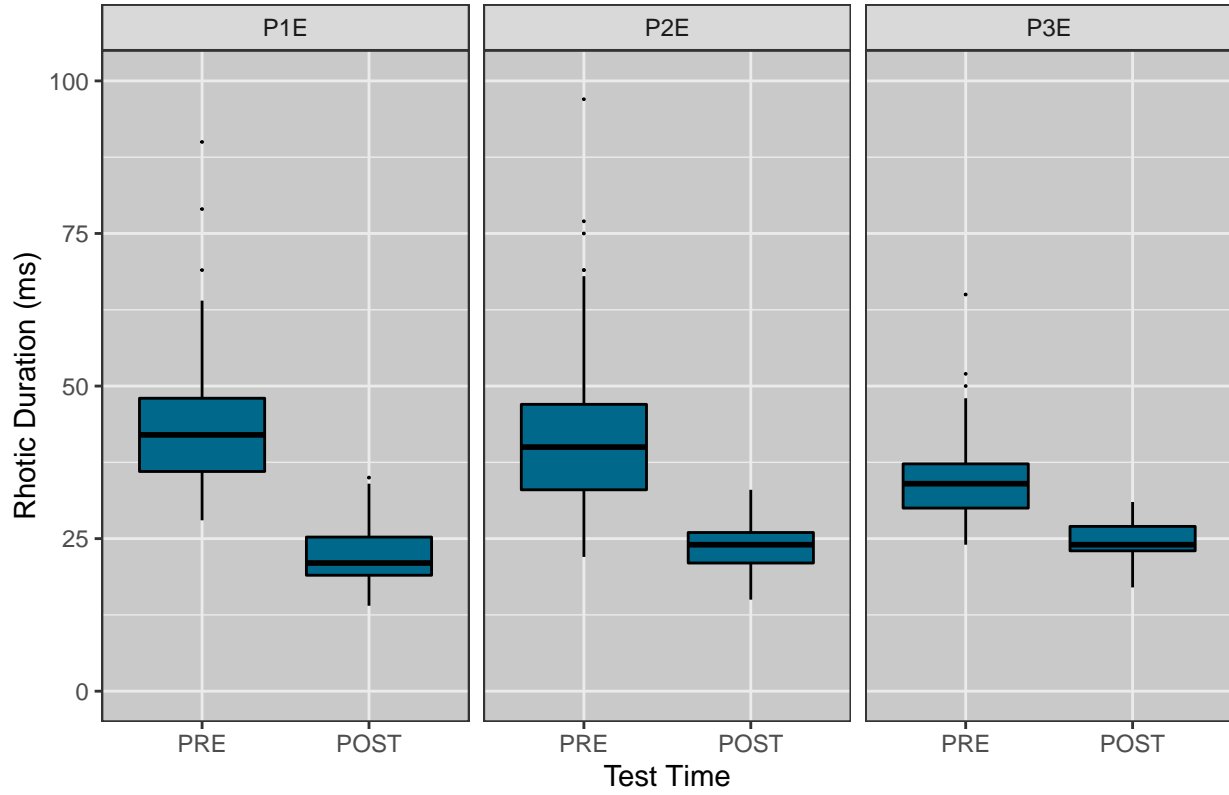


Table 4: Results of Paired t-tests of trills comparing duration during pre and post tests

Participant	df	p_val	t_val	estimate	ci_lo	ci_hi
P1E	49	0	24.420	78.480	72.022	84.938
P2E	48	0	9.020	50.163	38.981	61.345
P3E	49	0	6.967	31.660	22.528	40.792

Figure 2: Productions of trills per participant during the pre and post test

