

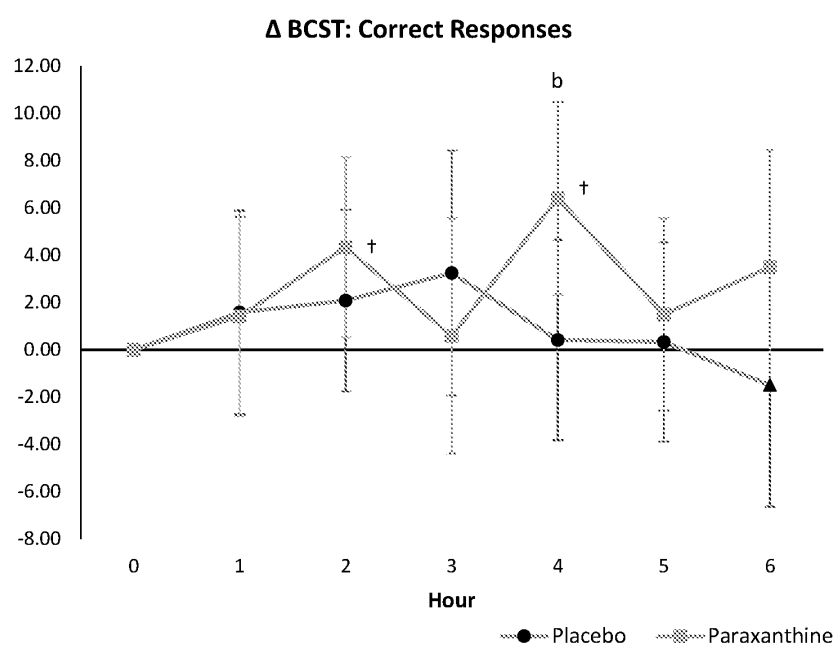


FIG. 1

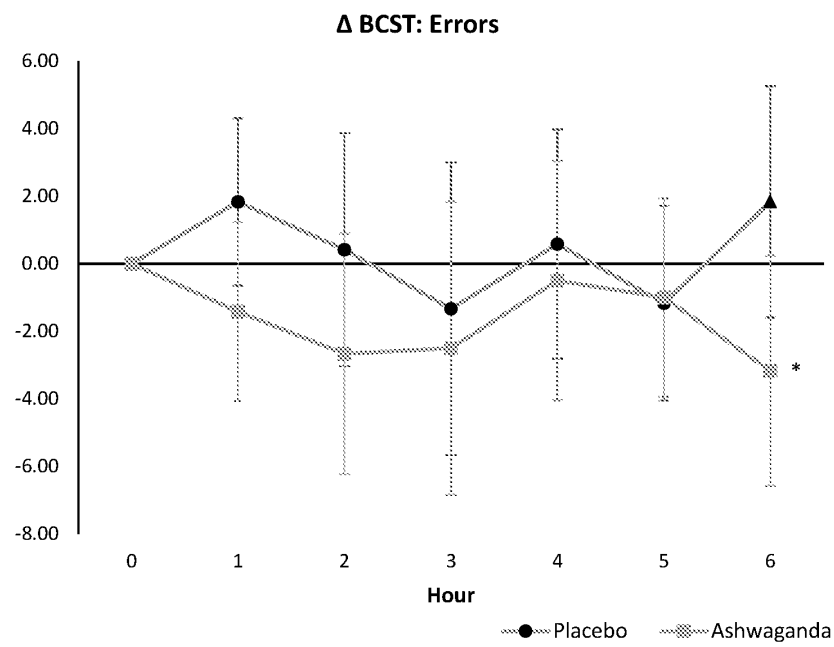


FIG. 2

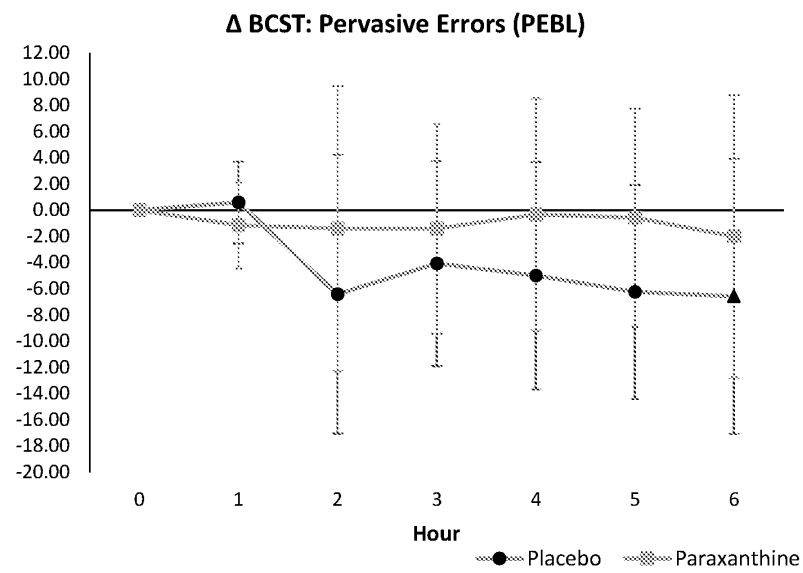


FIG. 3

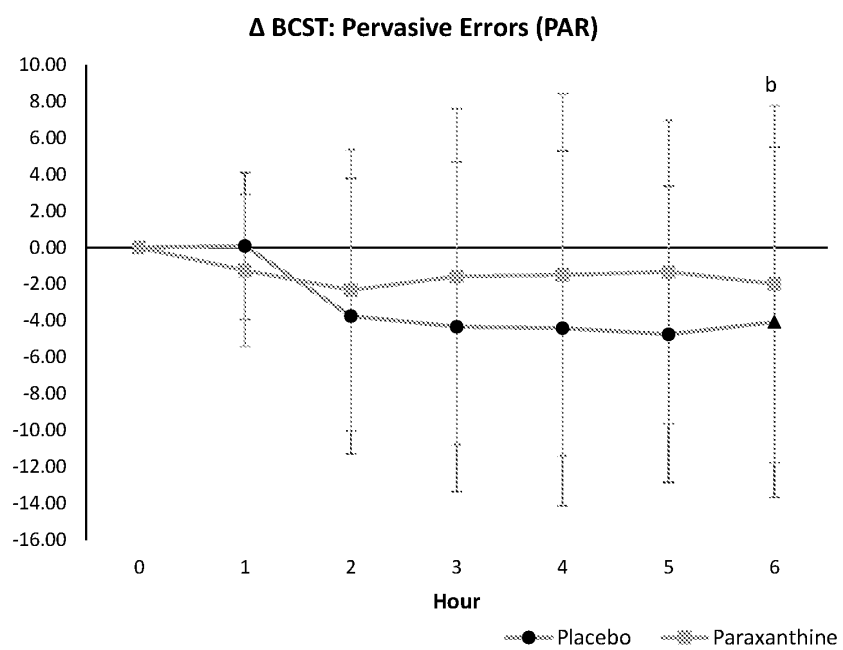


FIG. 4

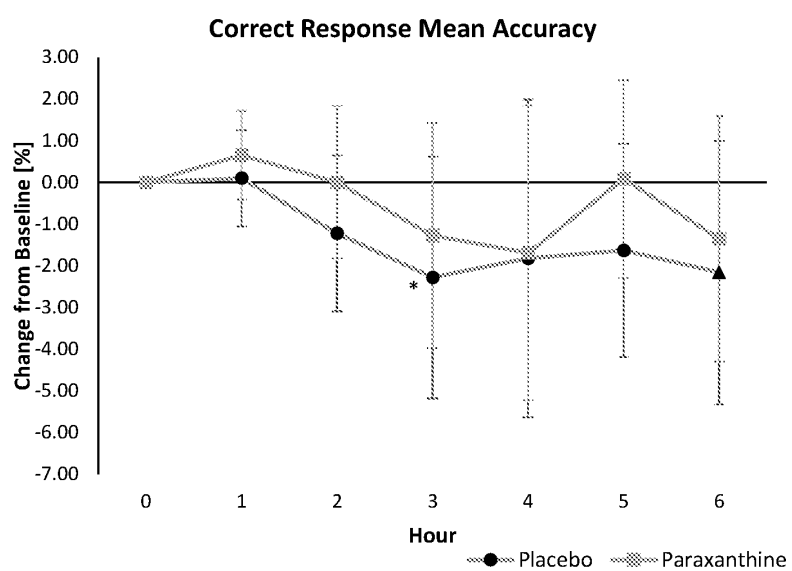


FIG. 5

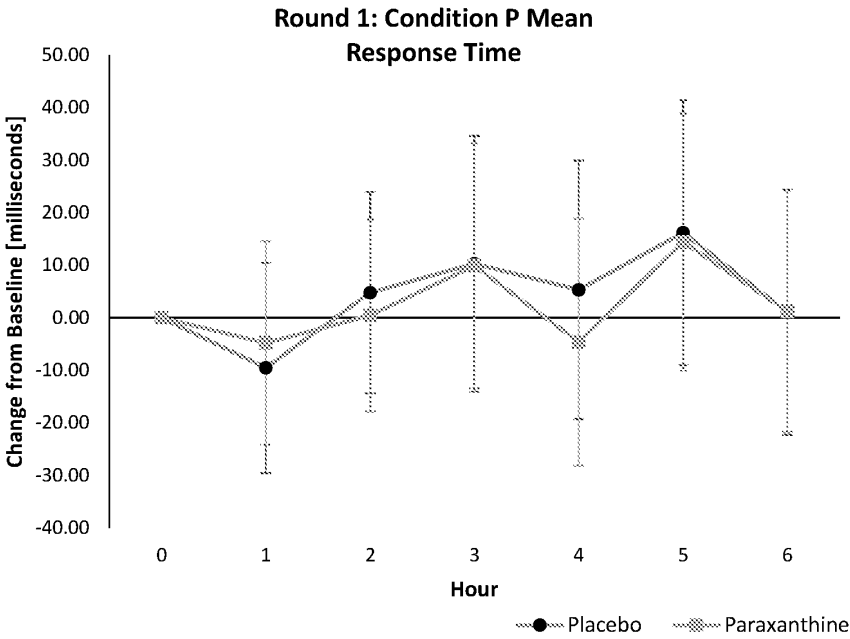


FIG. 6

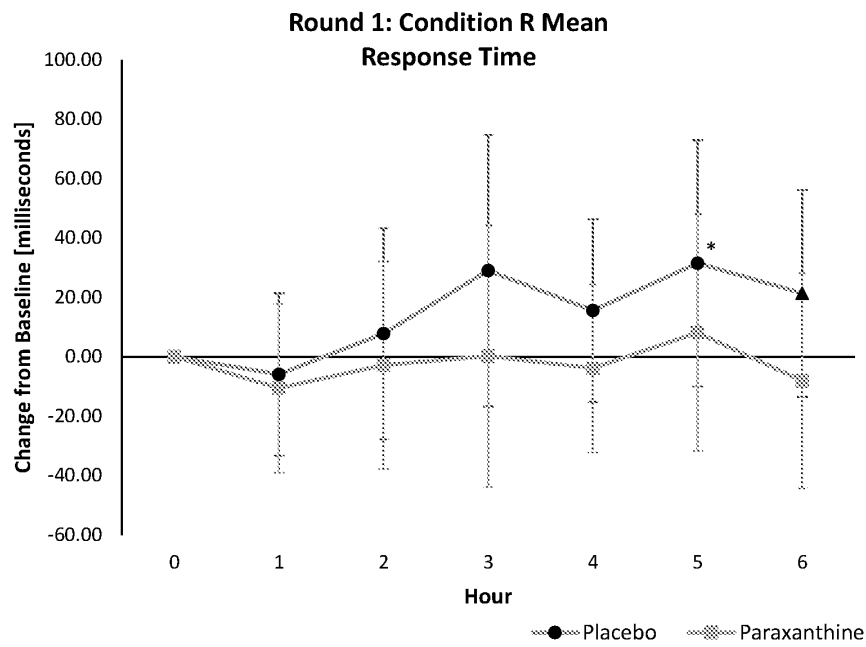


FIG. 7

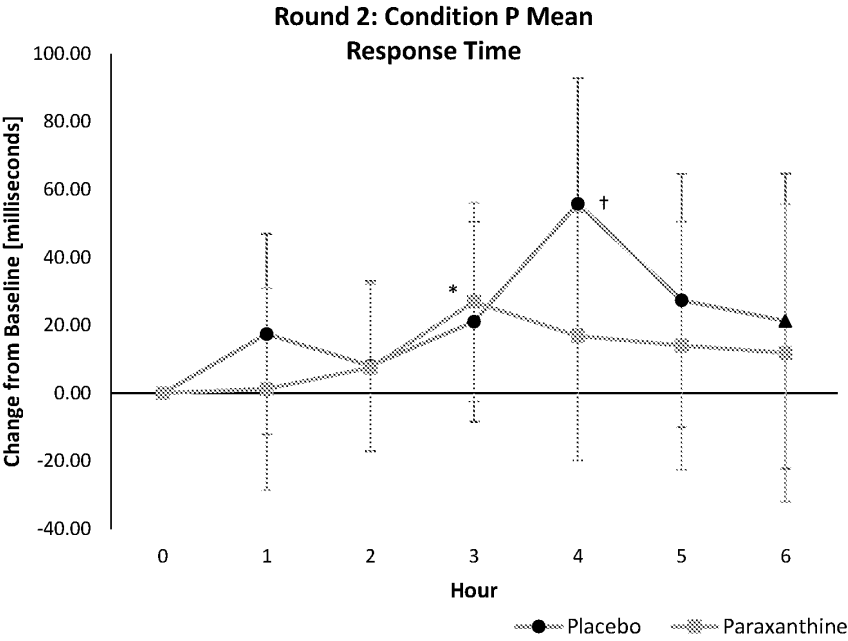


FIG. 8

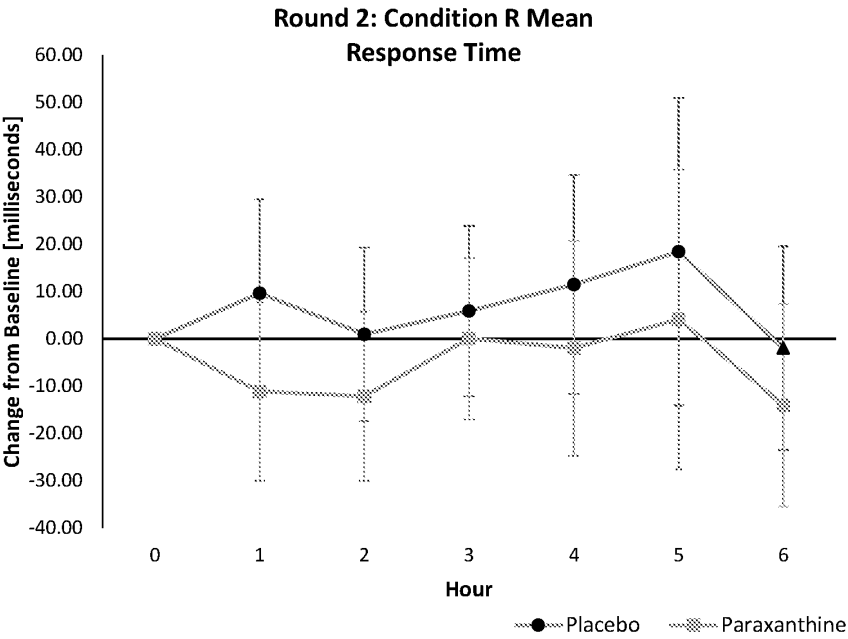


FIG. 9

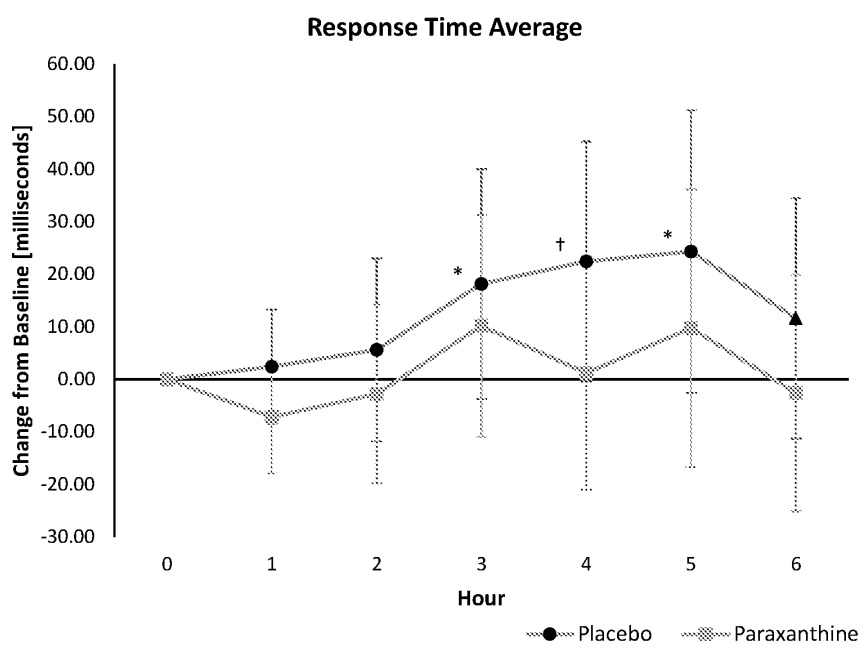


FIG. 10

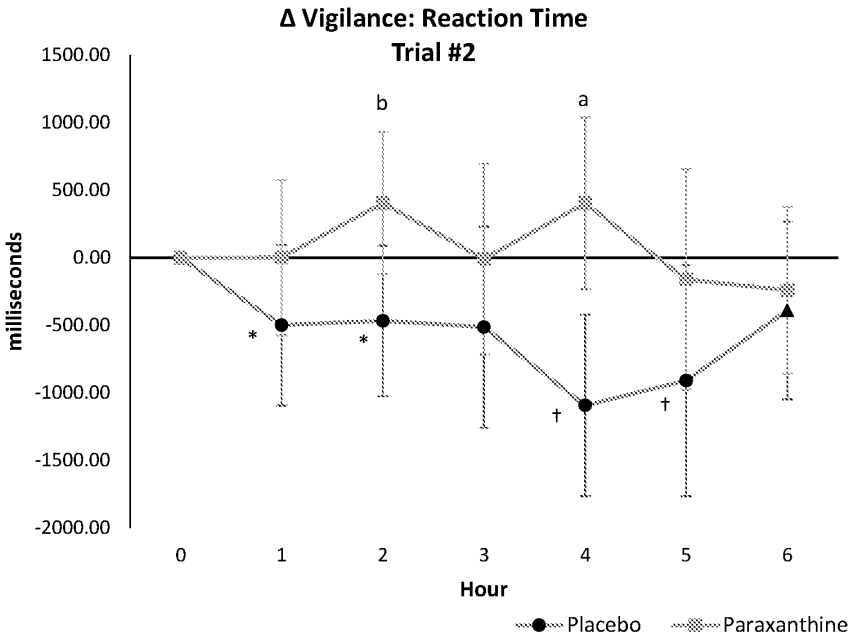


FIG. 11

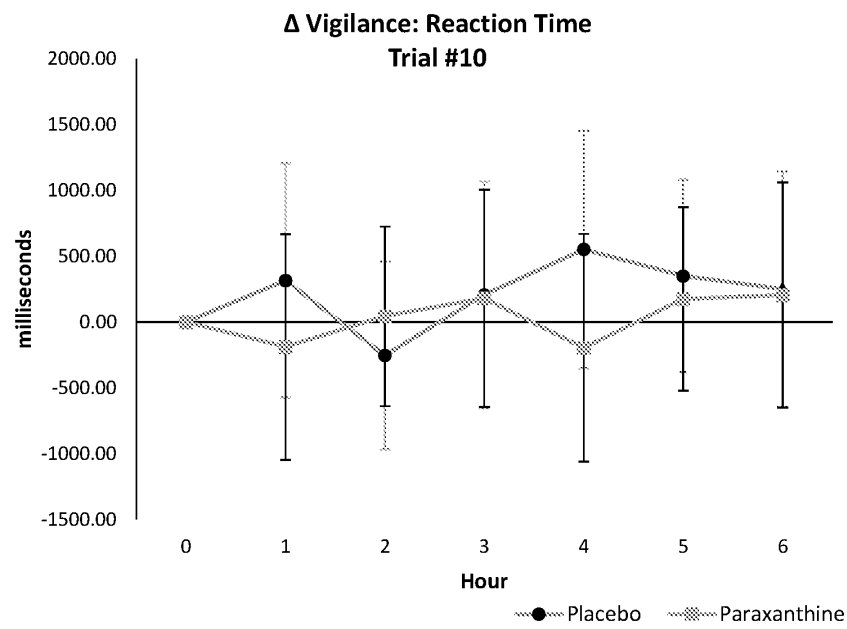


FIG. 12

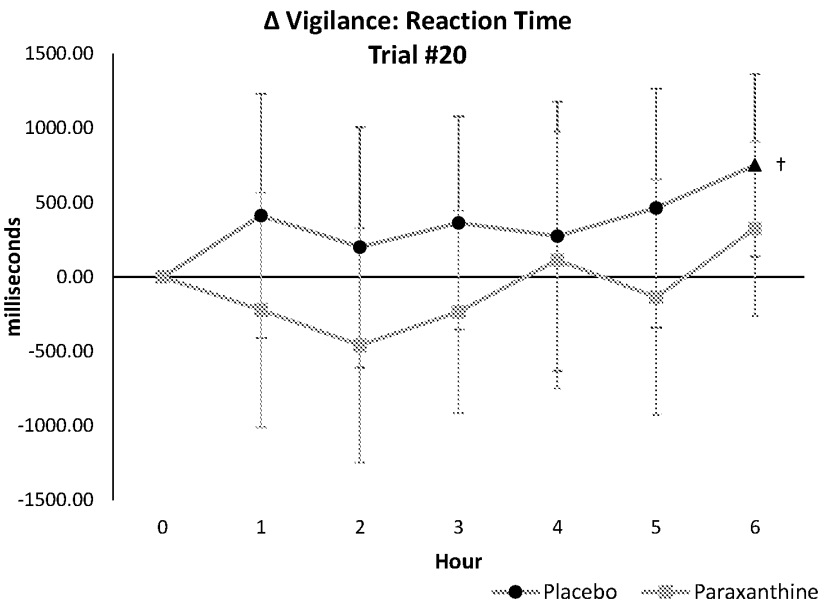


FIG. 13

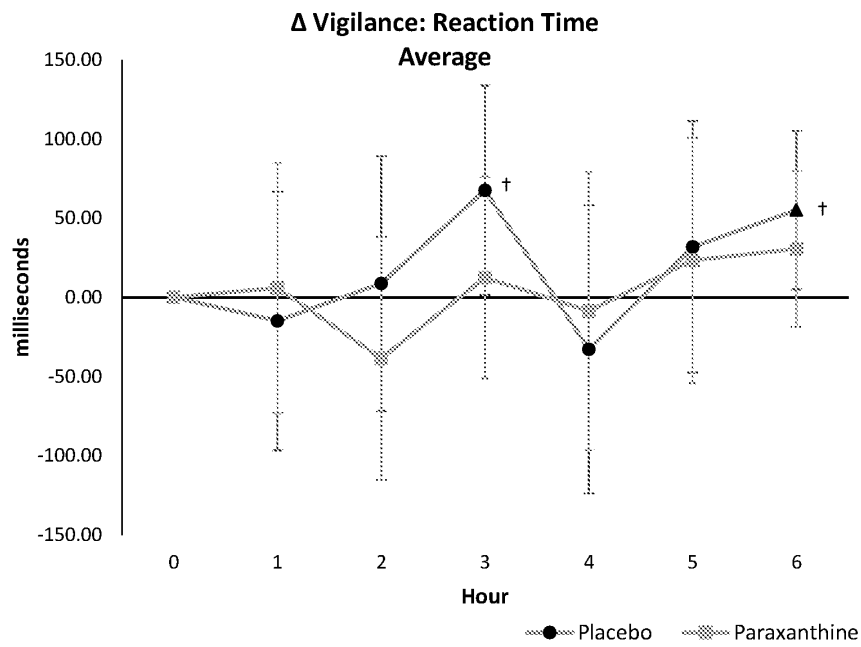


FIG. 14

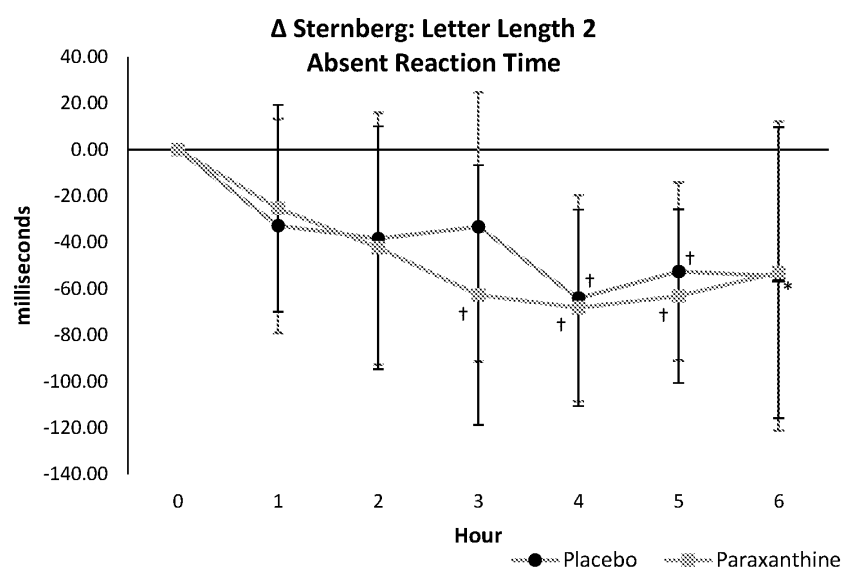


FIG. 15

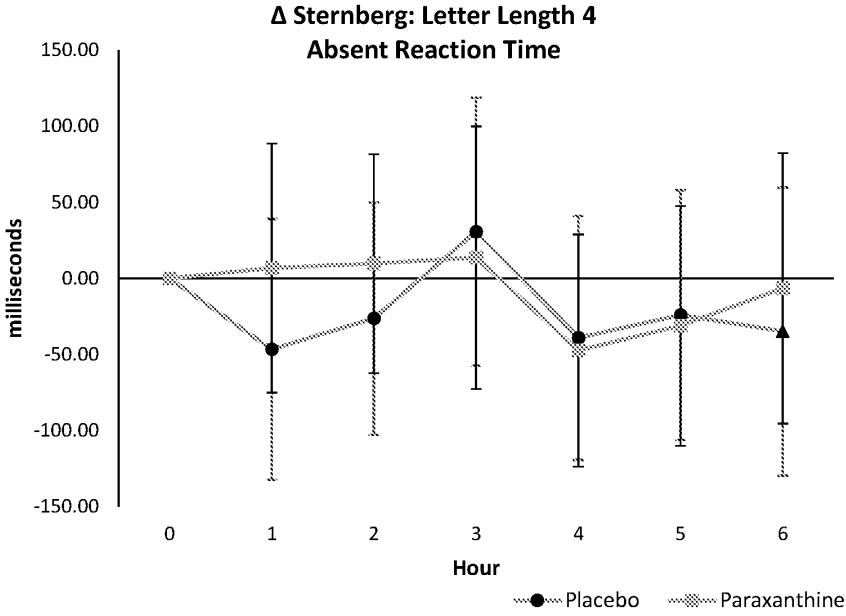


FIG. 16

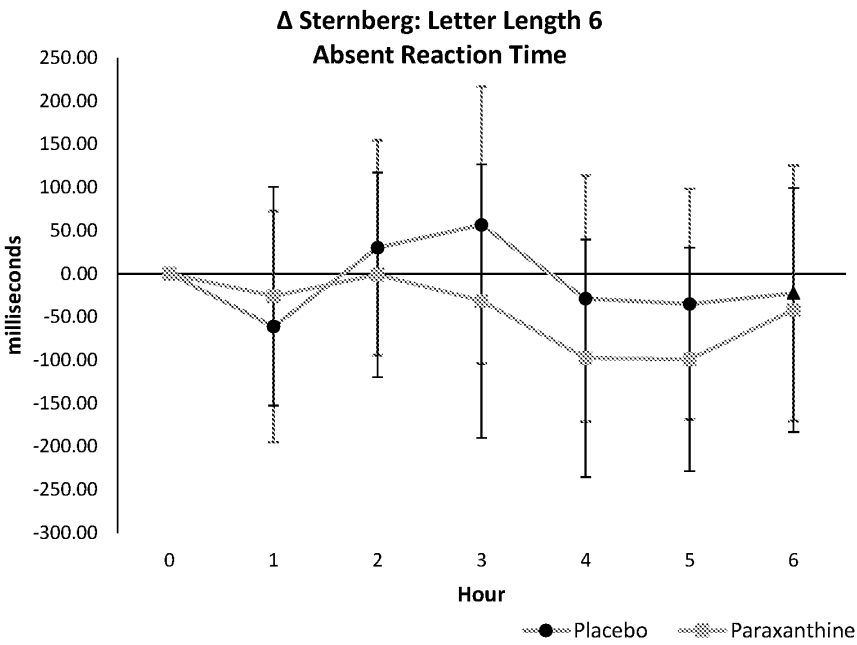


FIG. 17

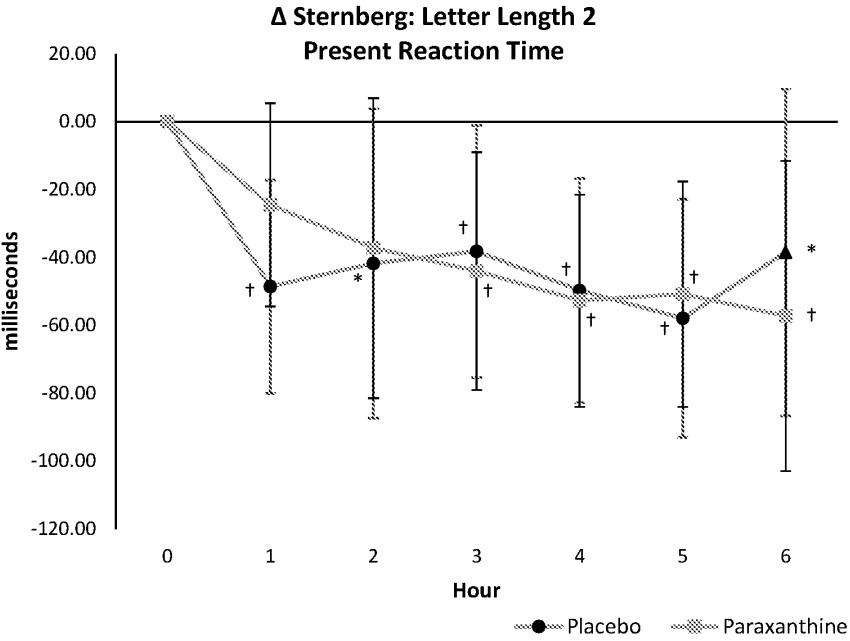


FIG. 18

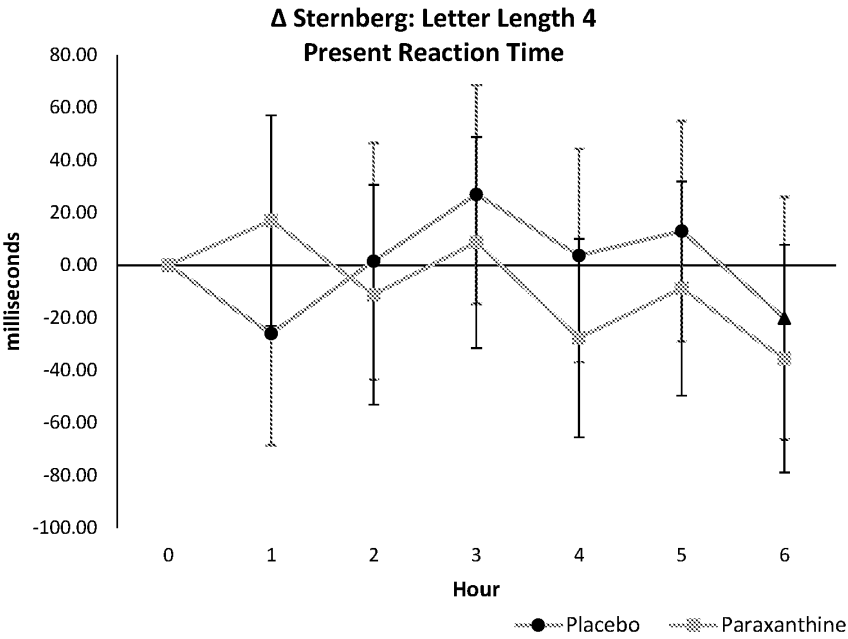


FIG. 19

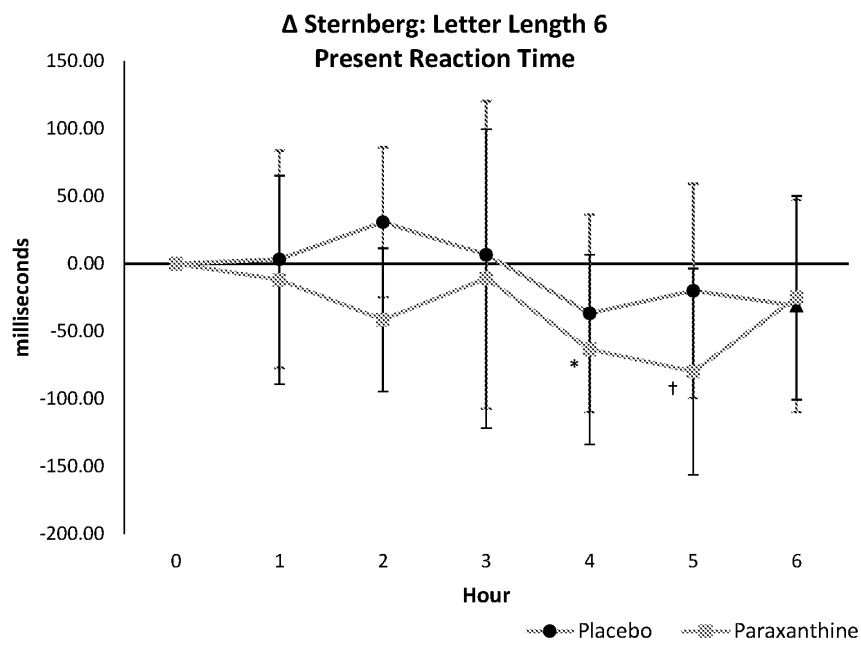


FIG. 20



FIG. 21

Solution	Solution abbreviation	Solution concentration
Methylxerine	Solution M	163mg/473ml
Liberine	Solution L	163mg/473ml
Paraxanthine	Solution P	163mg/473ml
Theacrine	Solution T	163mg/473ml
Caffeine	Solution A	0.22 g/L
	Solution B	163mg/473ml
	Solution C	4 g/L

FIG. 22

	Liberine	Paraxanthine	Theacrine	Methyliberine	Caffeine
Result of Bitterness Score	Solution L (163mg/473ml)	Solution P (163mg/473ml)	Solution T (163mg/473ml)	Solution M (163mg/473ml)	Solution B (163mg/473ml)
Tester 1	11.4	4.2	12.6	14.7	5.0
Tester 2	10.7	3.7	11.3	13.8	
Tester 3	10.5	4.4	11.8	13.4	
Tester 4	10.9	3.7	12.7	14.3	
Tester 5	10.5	3.9	11.9	14.0	
Tester 6	11.4	3.7	13.0	14.5	
Tester 7	10.8	3.6	12.5	14.6	
Tester 8	11.2	4.0	13.0	14.3	
Tester 9	10.9	3.9	11.9	14.2	
Tester 10	11.1	4.2	12.4	14.2	
Average Score	10.9	3.9	12.3	14.2	

FIG. 23

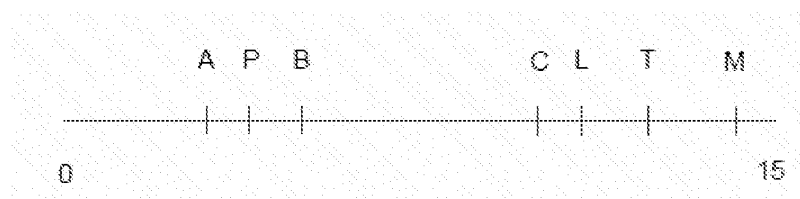


FIG. 24

	Solution L	Solution P	Solution T	Solution M
Product Bitterness Comments	The bitterness appeared in the mouth at once. And it dissipated slowly. The aftertaste was bitter as well.	The bitterness gradually appeared in the mouth and the aftertaste was not too bitter. The bitterness dissipated fast.	The bitterness appeared in the mouth at once, liked a pill. The bitterness was very strong and lasted for a long time in the mouth with a strong bitterness aftertaste.	The taste was bitter in the mouth at once, and the bitter taste increased slowly, but very strong, and it soon filled the whole mouth. The highest point of bitterness was the bitterest among these solutions. The bitterness lasted for a long time and the aftertaste was also strong.

FIG. 25