Statistics Plan

Design

Measures:

- Parent
    o 1 PaRRiS rating of responsiveness (1-5) (ordinal)
    o 2 Detailed rating of responsiveness (interval)
    o 3 Use of techniques (interval)
    o 4 Understanding of role questionnaire (1-5) (ordinal)
- Child
    o 1 FOCUS-34 (interval)
    o 2 MB-CDI (interval)

Five of the six measures cannot be biased by having the same experimenter carry out the analyses, as they are 'count' measures, thus the Lead Researcher will collect and analyse this data without need of blinding. The PaRRiS rating is the only rating which may be biased, and participants will therefore be rated on the PaRRiS by at least one research assistant who will be blind to the group and time point, rather than the Lead Researcher.

		Assessment Points (independent variable)		
		Baseline	Outcome	Follow-Up
Treatment arms (independent variable)	TAU	4 interval measures 2 ordinal measures		
	BCTT			
	BCTT/VEO			

Check for normality of each data: Shapiro-Wilk

A. Between subjects
   a. Is there a significant difference in parent and child measures between the treatment arms at baseline?
   b. Is there a significant difference in parent and child measures between the treatment arms at outcome?
   c. Is there a significant difference in parent and child measures between the treatment arms at follow-up?
B. Within Subjects
   a. Is there a significant difference in parent and child measures between the assessment points in TAU arm?
   b. Is there a significant difference in parent and child measures between the assessment points in BCTT arm?
   c. Is there a significant difference in parent and child measures between the assessment points in BCTT/VEO arm?
C. Is there a relationship between parental responsiveness and child language level?
D. Is there a relationship between parent understanding of role and parental responsiveness?

NORMAL DATA

Two-way repeated measures ANOVA with Tukey post-hoc for each variable

ABNORMAL DATA

Friedman Test with Wilcoxon signed-rank test (with Bonferroni adjustment) post hoc for each variable

After this, relationships between parental responsiveness measures, parental understanding of role and child language will be examined through correlational analyses.

LINKS

2 way repeated measures ANOVA https://statistics.laerd.com/spss-tutorials/two-way-repeated-measures-anova-using-spss-statistics.php

Friedman https://statistics.laerd.com/spss-tutorials/friedman-test-using-spss-statistics.php