

ANOVA Results Sections

1. Between-Subjects ANOVA (One-Way)

Study: Age and Problematic Gambling Behaviour

A one-way between-subjects ANOVA was conducted to explore the effect of age on problematic gambling behaviour (PGB). The descriptive statistics for each of the three levels of age (Adolescent, Emerging Adult, and Adult) are shown in Table 1. There were no statistically significant different difference between the group means as indicated by the ANOVA ($F(2,18) = .28, p = .76$) thus there was no effect of age on PGB.

Table 1.

Descriptive Statistics for ANOVA results

Age Group	<i>M</i>	<i>SD</i>	<i>N</i>
Adolescent	52.43	8.75	7
Emerging Adult	53.57	7.50	7
Adult	50.71	4.75	7
Total	52.24	6.93	21

2. Within-Subjects ANOVA (One-Way)

Study: Traffic Light Colours and Reaction Time

A one-way within-subjects (or repeated measures) ANOVA was conducted to explore the effect of traffic light colours (Red, Amber, and Green) on participants reaction time (in milliseconds). Means and standard deviations for each level of the IV can be seen in Table 1.

Table 1.

Descriptive Statistics

Colour	<i>M</i>	<i>SD</i>	<i>N</i>
Red	25.60	5.17	10
Amber	32.60	5.76	10
Green	34.30	5.95	10

The analysis revealed that there was a statistically significant difference in reaction times between at least two groups of the IV; $F(2,18) = 4.73, p = .02$. Pairwise comparisons further indicate that the significant difference lies between reaction times to the Red and Amber traffic lights only ($p = .02$). There was no significant difference between reaction times recorded between the red and green traffic lights, or between the amber and green traffic lights.