USE AND RISK PERCEPTION OF NITROUS OXIDE (LAUGHING GAS OR BALLOONS): A CROSS-SECTIONAL SURVEY AMONG ADOLESCENTS AND YOUNG ADULTS LIVING IN FEDERAL CAPITAL TERRITORY, NIGERIA

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Background:

Nitrous oxide (N_2O) has garnered attention for its recreational use, prompting concerns about potential health and safety risks among adolescents and young adults (AYA) in Nigeria. This study aimed to evaluate the use and risk perception of N_2O among AYA in FCT, Nigeria.

Methods:

A descriptive cross-sectional survey was conducted from May 2024 to July 2024 among adolescents and young adults living in FCT, Nigeria. A 34-item, 3-section self-administered and validated questionnaire was used for this survey. Risk perception was rated on a 5-Likert scale of agreement. Descriptive statistics (frequency, percentage) and inferential statistics (Chi-square) were used to analyze the data with the significance level set at p<0.05.

Results:

There were 424 participants in the survey of which 307 (72.4%) were aged 16-21 years and 147 (34.7%) attended University of Abuja. Only 65 (15.3%) reported to have ever used N_2O although 48 (73.8%) reported a *rare* use of N_2O . Nearly half, 198 (46.7%) had poor risk perception of N_2O use whereas more than half, 254 (59.9%) *agreed* that "It is important for a relative or friend to suggest the cut down on excessive N_2O use." More than half, 220 (51.9%) had a good risk perception of the negative consequences of N_2O of which 223 (52.6%) were *neutral* on the item: "Vitamin B12 deficiency is a negative consequence of continuous use of N_2O ". University ($\chi^2 = 16.439$, p=0.001), ($\chi^2 = 40.827$, p<0.001), and ($\chi^2 = 39.412$, p<0.001) were significantly associated with use, risk perception of N_2O , and risk perception of negative consequences of continuous use of N_2O , respectively.

Conclusion:

Self-reported use of N_2O was low among AYA living in FCT, Nigeria. Nearly half of the participants had poor risk perception of N_2O use. There is a need for targeted education on the risks of N_2O use among adolescents and young adults living in Nigeria.

Disclosure of Interest Statement:

The authors declare there is no conflict of interest in the preparation of this abstract.