

## Post 41-Determinants of Shisha vaping among high school students in Abidjan-Côte d'Ivoire

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**Background:** Vaping with shisha has experienced a worrying increase in recent years among schoolchildren. The first contact, which is most often made during adolescence, could lead to smoking. A survey was conducted in schools in Abidjan to analyse the determinants of this consumption.

### Methods

- Cross-sectional study from February to April 2019
- Random sample of schoolchildren from 8 public and private high schools in Abidjan, southern Côte d'Ivoire
- Socio-demographic characteristics, smoking habits, and smoking with shisha assessed by a questionnaire.
- Chi square test was used to compare proportions ( $p < 0.05$ )
- Logistic regression models at 5% risk measured the associations between shisha smoking and each of the characteristics studied

### Results

#### 1- Socio-demographic characteristics

- 766 schoolchildren
- Mean age : 17.5 (+/-1.6) years
- Sex ratio (M/F): 0.86

#### 2- Smoking habits

- At least one smoking method : 53 (7%)
- Shisha exclusively: 36 (68%)
- Shisha associated with cigarette : 11 (21%)

#### 3- Significant and influential predictors of shisha use

##### Univariate analysis

- Male ( $p=0.001$ )
- Cigarette smoker ( $p < 0.001$ )
- In the 10th grade ( $p=0.013$ )
- Had at least one friend who smoked cigarettes (0.032)
- Perceived cigarettes as soothing ( $p=0.02$ )
- and cited health impact as the main reason for quitting smoking ( $p=0.028$ )

##### Logistic regression model

- Male schoolchildren (OR=2.47 (1.12-5.85),  $p=0.029$ )
- and cigarette smoking (OR=15.3 (6.25-39.87),  $p=0.001$ )



Illustration : T. GBALIN

### Conclusion

- Vaping with shisha is a new entry point to smoking among schoolchildren, especially boys
- The use of vaping devices and products must be strictly controlled.
- Study of multiple substances use among schoolchildren is necessary to target preventive measures to be promoted.