



Association of Oral Precancer with non tobacco areca nut consumption

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Objectives:

To obtain the following in the population of Lucknow, North India:

- Prevalence of use of non-tobacco areca nut.
- Prevalence of oral precancer among users of non-tobacco areca nut.
- Calculate the odds ratio of development of oral pre-cancer

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Result

Total data collected : 4,53,823

Validated data:4,02,669
(88.7 % of total data)

Non Tobacco Areca nut
Users
11635 (10.7 %)

Tobacco Users
97165 (89.3 %)

Non-Users
2,93,869 (73%)

	Oral Precancer Prevalence n(%)	Odds Ratio (95% CI)
All non users n=2,93,869 (%)	464(0.16)	
Sample non users n=32238 (%)	57(0.18)	
AS users n=11635 (%)	369(3.17)	20.71(18.79-22.82)
Tobacco users n=97165 (%)	11878(12.22)	88.07 (84.02-92.31)
All n= 402669 (%)	12711(3.16)	

Leukoplakia, Erythroplakia, Oral Sub Mucous Fibrosis, Verrucous hyperplasia, Smokers Palate, Lichen Planus

Conclusion

- ❖ 3% population consumed AS whereas tobacco was consumed 8 times more by 24%.
- ❖ In 15-24 years age group, AS usage 1.6% population, tobacco by 4%. Use of AS declined with advancement of age. AS usage was similar in males females, tobacco more in males.
- ❖ Prevalence of Oral Precancer: **3.2% in AS users**; 0.16% in non-users, 12.2% in tobacco.
- ❖ Ratio of oral precancer in non users, AS users, and tobacco users was 1: 19: 73.
- ❖ *369 cases of OP in 11635 AS users (32 per 1000 AS users), 464 in 293869 non users (1.6 per 1000 non users) and 122 among tobacco users.*
- ❖ The risk of developing oral precancer is 20 times more in AS users.