Supari Consumption is a Common Oral Habit Among Women in Chabahar City

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Dear Editor

Chewing of areca nuts (Figure 1) in various forms is a common practice in India where areca nut products such as guthka, supari, and betel quid, with or without tobacco (pan) (Figure 2), are easily available. In India, there are regional differences in the consumption of these areca nut products. The nut contains arecoline and other alkaloids that very strongly stimulate the synthesis of collagen by fibroblasts (1, 2). People begin consuming areca nut products (pan, guthka, and supari) at an early age, thereby increasing the risk of oral mucosal fibrosis (OSF). OSF is a precancerous lesion characterized by submucosal fibrosis, reduced levels of vasculature, and mucosal atrophy. The clinical features of OSF include oral mucosal pallor and mucosal rigidity (Figure 3), which leads to limited opening of the mouth (Figure 4) (3). Consumption of products containing areca nut is common in Southeast Asian countries such as India, Bangladesh, and Pakistan (1, 4). In Iran, areca nut consumption is common in cities, such as Chabahar (South East of Iran), that are located near the border with Pakistan. There are few epidemiological studies on the consumption of different areca nut products and the associated oral changes in the people of Chabahar (a city where areca nut products are easily available). In this study, which was conducted 2010, 1500 people, 1067 (71.1%) men and 433 (28.9%) women, (with use formulae of sampling size) who attended different health centers in Chabahar city were randomly selected and evaluated for consumption of areca nut products. Among these subjects, 759 people, including 141 women and 618 men (age range, 8–48 years; mean age, 20–22 years) were found to consume areca nut products (pan, supari, and guthka). The pattern of consumption of these products showed significant gender-based differences (P < 0.05); pan consumption was common among men (391 men, 51.5%), and supari consumption was common among women (315 women, 95.7%). The women in our study believed that supari is beneficial for digestion and chewed...
it repeatedly during the day some of them also believed that supari chewing has aesthetic value (because of the red color that supari imparts to the lips).

Further, our study showed a significant correlation between consumption of pan, guthka, and supari and the probability of occurrence of OSF ($P < 0.05$).

The rate of consumption of areca nut products and the associated prevalence of OSF and oral cancer in Chabahar is higher than elsewhere in Iran, because of the cultural factors and the easy access to areca nut products in this region. This city is located very close to the Pakistan border, and areca nut derivatives are transferred across the border into Iran and are easily available at very low. Moreover, because of the lack of adequate knowledge about the disadvantages of this substance, the natives of this region have the habit of chewing areca nut products; however, these products are rarely consumed in other parts of Iran. It is necessary to increase public awareness about the hazards of chewing areca nut products in this region and develop an immediate an appropriate program to achieve this objective.

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References