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Epidemiology of Use of a Traditional Spirit "Sodabi" in the General Population of Togo

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Abstract

The purpose of this paper is to evaluate the profile of sodabi consumption in the Togolese population. This transverse descriptive study was conducted over a nine month period from June 9, 2013 to March 9, 2014, throughout the five regions of Togo. Findings demonstrated a clear profile of 2388 sodabi drinkers. 1672 (70.02%) men and 716 (29.98%) women. Prevalence was 62.45% in the population studied. Mean age was 35.3 years. Almost all subjects interrogated (98.48%) were togolese nationals. The study included the following ethnic and regional groups, the Kabyè-Tem ethnic group (43.59%) and the Paragourma-Akan groups (23.50%) were the most represented among the subjects interrogated. More than a third (25.67%) of subjects interviewed was unemployed with a higher unemployment rate in the Maritime region and Lomé Commune (37.16%). Most of the people interrogated (49.66%) were living as couples (married or cohabiting). 4.06% of subjects drank sodabi only. 51.40% of drinkers abused sodabi (40.59% men against 10.81% women). The prevalence of noxious alcohol use was high (12.35%) among unemployed participants. 25.51% of drinkers visited drinking establishments once a week and 22.10% almost every day. The euphoric effect of alcohol (45.23%) and friendly atmosphere (19.39%) of the drinking establishment were the main reasons for attendance (64.62%). Of the damage caused by the abuse of sodabi, 39.26% of subjects showed somatic or neurological complications and 60.74% psychological and psychiatric complications. Updating these data seems necessary, because

combating excessive drinking is one of the main objectives of current togolese public health policy.

Keywords: Sodabi, Consumption, Social determinants, Togo

Introduction

The use of craft alcoholic beverages has been an integral part of many cultures and civilizations (McGovern, 2009). There are many places in the world today where versions of these traditional patterns originating in tribal and rural societies persist (Willis, 2006). In the West African region, and in Togo particularly, is produced by the fermentation of oil palm sap (*Elaeis guineensis*), a spirit, called "Sodabi" whose conditions of production and sale, quality, and quantities produced and consumed are beyond control. Formerly confined to rural areas and to adults on festive occasions, traditional ceremonies and preparation of medicinal maceration, sodabi today has gained young adepts and broken into urban areas with a proliferation of drinking establishments called "white curtains." Economic problems have kept imported spirits out of reach of the most disadvantaged social strata. The latter have resorted to sodabi which is less expensive. This is why drinking establishments and sales outlets are always filled with drinkers. They are visited at all times of the day or night by consumers of all ages. In imitation of a new form of whisky packaged in small sachets, it has recently appeared on the Togolese market, small bags of colored and flavored sodabi at a price of 100 FCFA (\in 0.15) putting this product within reach of minors and schoolchildren. The sale of sodabi became a flourishing trade for and schoolchildren. The sale of sodabi became a flourishing trade for producers and retailers and consumption is now for many young and old a way of life, a refuge from everyday problems causing massive and ambient alcoholism. In 2010, the prevalence of alcohol dependence in Togo was estimated at 3.3% while that of the African sub-region was 1.4% (WHO, 2014). Consumers at risk were assessed at 12.0% for men and 9.9% among women (Agoudavi *et al.*, 2015). This pernicious "democratization" of sodabi consumption has not taken place without serious social consequences. The harmful use of alcohol ranks among the top five risk factors for disease, disability and death throughout the world (WHO, 2010; Lim *et al.*, 2012). It is a causal factor in more than 200 disease and injury conditions (WHO, 1992), the harmful use of alcohol thus accounts for 5.9% of all deaths worldwide. One study, for example, found that alcohol was the cause of 11.47% of hypertension cases in rural Togo (Goeh-Akue *et al.*, 2008). It therefore appears necessary to identify the profile of consumers in order to conceive of appropriate measures to contain the tendency toward the excessive consumption of sodabi.

This research was initiated to determine the contribution of sodabi to ambient alcoholism in Togo, and to gather new data, factual indicators allowing control programs against the risk factors for non-communicable diseases, and to develop adequate control policies and strategies.

Methods

- Mode of investigation: This is an epidemiological study using the AUDIT questionnaire to define the profile of consumers of sodabi, a traditional spirit produced in Togo. This survey was conducted between June 9, 2013 and 9 March 2014 and included a representative sample of the population of Togo. Togo is a low-income country (GDP per capita: US \$ 1400). It is located in West Africa and has an area of 56 000 km² and a population of approximately 6,306,000 inhabitants. The majority of the people are older than 15 years (58%) (Agoudavi *et al.*, 2015).

 Selection criteria: The investigations were conducted nationally with adults of both genders in five regions of the country. The tested subjects lived in urban and rural areas within the sampled area for at least 6 months and were between 15 and 64 years of age at the time of the investigation. They were recruited after obtaining their informed consent to participate in the study. Individuals who could not answer the recruitment questions were not included
- not included
- Sampling: The sample size of 4,300 individuals per age group and sex were selected following Schwartz's formula (1969) and the recommendations outlined in the STEPS manual in part 2, Section 2. Taking into consideration our target sample of people between 15 and 64 years of age, it was found that the number required per age group and per sex was 10. This gave a provisional size of 3820 people as the minimum number of individuals necessary for the study. Taking into consideration previous investigations in the field of health in Togo (with an estimated non-response rate of 10%), the definitive size of the retained sample size was 4300 individuals individuals.
- Data collection: The objective was to screen the three sodabi consumption patterns: risky, harmful and alcohol dependence in the Togolese population. The questionnaire used is a self-questionnaire to be filled by the respondent at home, drinking establishment or in hospital during a consultation. It includes questions about socio-demographic and alcohol data found in the AUDIT (Alcohol Use Disorders Identification Test) questionnaire. The AUDIT questionnaire was developed by the WHO (Gache *et al.*, 2005) to screen for risky, harmful or massive alcohol consumption habits. It includes 10 questions covering the three categories of alcohol consumption. General practitioners, medical school students, laboratory assistants and managers of drinking establishments and sodabi

outlets in the regions of Togo were solicited and trained to carry out this investigation. They were selected on a voluntary basis, after a telephone or email contact or after appointment with a doctor or physicians. This questionnaire is delivered with an explanatory letter guaranteeing the anonymity of the respondent. It is specified that the subject can be assisted by a third person especially if he or she is illiterate.

- Statistical analyses: The results are presented as mean \pm standard deviation of the mean. Statistical analyses were performed using Excel software. When two groups were compared, the statistical differences were determined by the nonparametric Mann-Whitney test. Beyond two groups, statistical differences were determined by Kruskal–Wallis one-way analysis of variance followed by Fischer LSD test. The value of p = 0.05 is set as the significance limit. significance limit.

Results and Discussion

Socio- demographic characteristics

The results of this cross-sectional study highlights the prevalence of sodabi

consumption in Togo. Of the 2388 drinkers, 1672 are men (70.02%) against 716 women (29.98%) or a consumption prevalence of 62.45% nationally. The sample was young, with a mean age of 35.3 ± 11.87 years, this value is comparable to the mean age of 34.01 ± 12.65 years reported by Agoudavi *et al.*, (2015). Almost all (98.48%) of the respondents were of Togolese nationality with the Kabyè-Tem (43.59%) and Para-gourma-Akan (23.50%) ethnic groups dominant. In the study population, the 25-34 age group was the most represented with a rate of 38.84%, including 70.93% men and 29.07% women. This same observation was made during the STEPS TOGO 2010 investigation in which the 25-34 age group was most represented in a investigation in which the 25-34 age group was most represented in a proportion of 29.4%. A predominance of males was noted in all age groups. In an epidemiological inquiry about the users of traditional drinking establishments, conducted by Yeo-Tenena *et al.*, (2006) on alcohol consumption, all interviewees were male because women encountered in the consumption, all interviewees were male because women encountered in the study areas had refused to take part in the survey. The over 64 age group was the least represented with 1.26%. Similarly, the 55-64 age group was the least represented with 8.4% in the STEPS survey TOGO (2010). The unemployed accounted for 25.67% of drinkers with higher rates in the Maritime Region and Lomé Commune (37.16%), followed by the Kara Region (32.42%). Farmers follow with 19.82% (46.70% in the Plateau Region). Artisans, merchants and entrepreneurs come third with 17.58%. Intermediate professions were less represented with 3.83% (Table 1).

Table 1: Socio-demographic parameters of the survey

	RS		RK		RC		RP		RM-	·L
	Effective	%	Effective	%	Effective	%	Effective	%	Effective	%
Sex										
Men	234	9,80	304	12,73	76	3,18	364	15,24	694	29,06
Women	148	6,20	202	8,46	12	0,50	192	8,04	162	6,78
Professional status										
Farmers	58	2,71	62	2,90	62	2,90	198	9,26	44	2,06
Employees	38	1,78	48	2,24	4	0,19	62	2,90	72	3,37
Workers	10	0,47	52	2,43	2	0,09	88	4,11	154	7,20
Intermediate professions	14	0,65	22	1,03	0	0,00	14	0,65	32	1,50
Cadres, intellectual or scientific professions	12	0,56	32	1,50	2	0,09	56	2,62	76	3,55
Artisans, merchants and business leaders	58	2,71	106	4,96	16	0,75	26	1,22	170	7,95
Without profession	83	3,88	178	8,32	2	0,09	82	3,83	204	9,54
Marital status										
Married	242	10,13	200	8,38	36	1,51	324	13,57	384	16,08
Single	54	2,26	230	9,63	24	1,01	130	5,44	400	16,75
Widow (er)	36	1,51	22	0,92	24	1,01	60	2,51	28	1,17
Divorced	50	2,09	54	2,26	4	0,17	42	1,76	44	1,84
Ethnic group										
Adja-Ewe-Mina	52	2,33	48	2,15	8	0,36	34	1,52	272	12,20
Akposso-Akébou	10	0,45	18	0,81	8	0,36	34	1,52	28	1,26
Ana-Ife	10	0,45	4	0,18	4	0,18	140	6,28	30	1,35
Kabyè-Tem	26	1,17	340	15,25	54	2,42	168	7,53	384	17,22
Paragourma-Akan	262	11,75	70	3,14	18	0,81	58	2,60	116	5,20
Foreigners	12	0,54	12	0,54	4	0,18	4	0,18	2	0,09

RS : Region of Savane ; RK : Region of Kara, RC :Central Region ; RP : Region of Plateaux, RM-L : Regions of Maritime and Lomé Commune

Characteristics of alcoholism

Table 2, shows that in the population, 36.26% drank occasionally (not more than once per month), 26.12% moderately (2-4 times per month), weekly 21.39% (2 to 3 times per week) and 16.23% daily (more than 3 times per week). Whatever the mode of consumption, young people in the 25-34 age group are most affected (38.88%). According to the results, it is observed that 14.90% of the subjects consume between 1 and 7 glasses (10 to 70 g of pure alcohol) of sodabi per week, 9% drank 8 to 14 glasses (80 to 140 g of pure alcohol), 8.50% drank 15 to 21 glasses (150 to 210 g of pure alcohol) and 5.30% of the population consuming more than 21 glasses per week. A standard glass of alcoholic beverage at 40% vol. usually corresponds to 10 g of pure alcohol (Turner, 1990). The daily average for males is 3 glasses or 30 grams of pure alcohol per day and for women 2 glasses or 20 g of pure alcohol per day. This consumption level seems high compared to the average daily alcohol consumption reported by Agoudavi et al., (2015) which is 13 g of pure alcohol for men and 9 g for women. The WHO report (2014) noted that people in Togo reported a consumption of 1.3 liters of pure alcohol per capita between 2008 and 2014, although in the WHO African region, the average consumption was about 6.0 L of pure alcohol (13.5 g of pure alcohol per day) per capita. In this study, the

observed weekly average (20 glasses for men and 14 glasses for women) was in conformity with WHO (in terms of weekly volume, beyond 14 glasses per week for women and 21 glasses for men, there is a risk of excessive drinking, and beyond 48 glasses regardless of sex, there is a risk of alcohol dependence). The same WHO report highlighted a prevalence of harmful alcohol consumption by 12.2% for men, which is comparable to our findings (12.0%) but with a higher sodabi dependence rate of 45.96% against 5.2%.

In Togo, 34.83% of the population aged 15 and over, indicate never drinking six or more glasses of sodabi on one occasion and 16% did so less than once a month over a period of 12 months. In contrast, 20% of people drank 6 glasses of alcohol or more on one occasion every month, 16.68% do it every week and 11.49% almost every day. 49.62% of drinkers of 6 or more glasses of alcohol come from the Kara Region followed by the Maritime Region and Lomé Commune (42.86%) and the Plateau Region (4.51%). The prevalence of sodabi consumption is as follows: 48.58% (1160 cases) of sodabi drinkers have a consumption risk, 11.26% (269 cases), harmful consumption and 40.16% (959 cases) alcohol-dependent. Men consume more sodabi than women, 42.01% and have a risky consumption, 12.03% have a harmful consumption and 45.96% are alcohol-dependent. This difference between men and women seems logical since many surveys show a difference between the sexes (Corrao et al., 2000; 2004). In women, 63.97% have a risky consumption, 9.50% harmful consumers and 26.53% alcohol-dependent. The same observation is made by other studies (Fillmore *et al.*, 1991; WHO, 2014; Agoudavi *et al*, 2015). Men drink more often than women, regardless of age. They consume alcohol in larger amounts (overall and by occasion) and more often; they are also more often drunk.

Table 2: profiles of alcohol consumption from the survey

1	RS	5	RI		RC		RI	RM-L		Total		
	Effec		Effec	Effec			Effec		Effec		Effec	
	tive	%	tive	%	tive	%	tive	%	tive	%	tive	%
Consumption profile for men												
		1,8		7,1		1,		5,6		16,		32,
Dependence	44	4	170	2	32	34	134	1	388	25	768	17
		0,5		2,0		0,		2,0		3,1		8,4
Harmful consumption	14	9	48	1	14	59	50	9	75	4	201	2
		7,3		3,6		1,		7,5		9,7		29,
Risky consumption	176	7	86	0	28	17	180	4	232	2	702	41
Consumption profile for women												
		0,3		4,1		0,		0,5		2,5		7,9
Dependence	8	4	98	1	10	42	14	9	60	1	190	6
		0,3		1,1		0,		0,6		0,6		2,8
Harmful consumption	8	4	28	7	0	00	16	7	16	7	68	5
		5,5		3,1		0,		6,7		3,6		19,
Risk consumption	132	3	76	8	2	08	162	9	86	0	458	19
Consumption frequency												
		6,7		7,8		1,		12,		8,8		37,
1 time per month or less	158	9	182	2	36	55	280	03	206	5	862	03
		2,4		3,9		1,		8,5		10,		26,
2 to 4 times per month	56	1	92	5	28	20	198	1	244	48	618	55
2 to 3 times per week	104	4,4	130	5,5	14	0,	20	0,8	194	8,3	462	19,

		7		8		60		6		3		85
At least 4 times a week	46	1,9 8	102	4,3 8	10	0, 43	16	0,6 9	212	9,1 1	386	16, 58
Quantity consumed		13,		12,		0,		21,		19,		67,
1 or 2	328	74 2,0	300	56 5,5	16	67 2,	522	86 1,0	454	01 12,	1620	84 23,
3 or 4	48	1	132	3	52	18	24	1	306	81	562	53
5 or 6	2	0,0 8	42	1,7 6	18	0, 75	8	0,3 4	66	2,7 6	136	5,7 0
		0,0		0,5		0,		0,0		0,7		1,4
7 or 8	0	0,0	12	0 0,8	2	08 0,	2	8 0,1	18	5 0,5	34	2 1,5
10 ou plus	0	0	20	4	0	00	4	7	12	0	36	1
Frequency of consumption of 6 or more glasses												
•	20.5	12,	40	1,6		0,	200	12,	4.50	7,5	024	34,
Never	306	93 2,1	40	9 3,7	12	51 2,	288	17 1,6	178	2 6,8	824	83 16,
Less than once a month	50	1	88	2	48	03	40	9	162	5	388	40
		0,7		4,9		0,		7,7		7,2		21,
Once a month	18	6	116	0	10	42	184	8	172	7	500	13
	0	0,0	120	5,4		0,		0,2	250	10,	200	16,
Once a week	0	0,0	128	1 5,5	4	17 0,	6	5 0,5	250	57 4,8	388	40 11,
Daily or almost	0	0,0	132	8	8	34	12	1	114	2	266	24
Effects felt												
		5,7		5,5		1,		16,		14,		43,
Euphoric effect	154	4	148	2	48	79	430	03	380	17	1160	25
Desinhibitor effect	4	0,1	74	2,7	2	0,	12	0,4	48	1,7 9	140	5,2 2
Desinfibitor effect	4	5 6,1	/4	6 5,6	2	07 0,	12	5 1,0	48	6,2	140	19,
Maintain friendly ties	164	1	152	7	8	30	28	4	168	6	520	39
		0,4		1,4		0,		9,9		2,8		14,
Anxious effect	12	5	38	2	4	15	266	2	76	3	396	77
		2,0		3,3	2.4	0,		2,4	222	8,6		17,
Physical dependence Duration of use sodabi	54	1	90	6	24	89	66	6	232	5	466	38
Duration of use sociable		10,		7,8		2,		14,		18,		52,
1 to 5	240	07	186	0	48	01	342	35	444	62	1260	85
		2,4		3,9		1,		7,4		13,		28,
6 to 10	58	3	94	4	28	17	178	7	310	00	668	02
44 . 45		0,9	0.2	3,4		0,		1,0		2,7	210	8,8
11 to 15	22	2 0,8	82	4 2,8	14	59 0,	26	9 0,0	66	7 1,0	210	1 4,8
16 to 20	20	4	68	5	0	00	2	8	26	9	116	7
10 10 20		1,0	00	1,9	Ü	0,	_	0,2		0,2	110	3,4
20 to 25	24	1	46	3	0	00	6	5	6	5	82	4
		0,5		1,0		0,		0,0		0,2		2,0
26 et plus	14	9	26	9	0	00	2	8	6	5	48	1
Consumption of other beverages and noxious substances												
and noxious substances		0,2		1,6		0,		0,1		1,8		4,0
Exclusive consumption of sodabi	10	1	80	9	8	17	8	7	86	2	192	6
		5,5		6,5		0,		9,8		14,		36,
Beer	262	4	310	5	36	76	466	5	672	21	1746	91
Tchoukoutou	32	0,6	234	4,9	71	1,	250	7,5	276	7,9	1074	22,
Tenoukoutou	32	8 3,2	234	5 2,4	74	56 0,	358	7 1,4	376	5 3,3	1074	71 11,
Tchakpalo	154	6	114	1	42	89	70	8	158	4	538	37
•		0,2		2,3		0,		3,0		3,8		10,
Lossomissine	12	5	110	3	44	93	142	0	180	1	488	32
Wine	72	1,5	60	1,2	36	0,	28	0,5	158	3,3	354	7,4

		2		7		76		9		4		8
		0,2		1,2		0,		3,3		1,7		7,1
Liquors (wisky, rhum, gin)	10	1	60	7	28	59	158	4	82	3	338	5
Consumption of other noxious												
substances												
		10,		14,		2,		17,		25,		70,
No	312	84	420	59	66	29	510	72	724	16	2032	60
		1,0		2,9		0,		1,4		21,		27,
Tabacco	30	4	84	2	18	63	42	6	612	26	786	31
		1,6		0,0		0,		0,0		0,0		1,8
Cola	46	0	0	0	8	28	0	0	0	0	54	8
		0,0		0,0		0,		0,1		0,0		0,2
Narcotics	0	0	0	0	0	00	4	4	2	7	6	1
Cabarets attendance frequency												
		1,0		4,2		0,		10,		5,4		21,
Never	24	9	94	8	4	18	220	02	120	7	462	05
		7,2		2,2		1,		0,1		5,4		16,
Less than once a month	158	0	50	8	26	18	4	8	120	7	358	31
		1,2		2,6		0,		4,6		5,7		15,
Once a month	28	8	58	4	16	73	102	5	126	4	330	03
		4,4		4,7		0,		0,5		15,		25,
Once a week	98	6	104	4	8	36	11	0	339	44	560	51
		1,7		7,4		0,		0,3		11,		22,
Daily or almost	38	3	164	7	18	82	7	2	258	75	485	10

RS : Region of Savane ; RK : Region of Kara, RC : Central Region ; RP : Region of Plateaux, RM-L : Maritime Region and Lomé Commune

In total, 51.40% of the study population abusively consume sodabi, 40.59% for men against 10.81% for women. This sodabi abuse affects men and women in the Maritime region and Lomé Commune (47.78% and 29.46%) and the Kara region (22.50% and 48.84%). The STEPS survey in Togo (2010) noted that the highest prevalence in harmful alcohol consumption was observed in the Kara (6.2%), Savana (5.3%) and Central regions (4.2%). An understanding of this type of alcoholism could be related to cultural causes, geographical and financial accessibility and a return to traditional values (Yeo-Tenena et al., 2006). It is therefore not surprising to find this high proportion, because in targeting the consumer of sodabi one unintentionally selects the ethnic group (Adja-Ewe-Mina) that populates the region and who have made sodabi their preference. Environmental factors such as economic development, culture, the availability of alcohol and the effectiveness of policies on the consumption of alcohol, are relevant factors that explain differences in vulnerability between societies, historical trends of alcohol consumption and alcohol-related harm (Babor et al., 2010; Nelson et al., 2013). Young people in the 25-34 age range (19.46%) consume sodabi more abusively (harmful use and alcohol dependence) than other drinkers in the nation. This presentation of proportions appears to be consistent with distributions usually obtained in Europe and America where the highest frequency of alcohol abuse is found among young adults (Hibell et al., 2004). Similarly, in the population studied, younger drinkers aged 15-34 have the highest risk behaviors (8.51% non-harmful use; 1.6% of harmful

drinking and 5.05% of alcohol-dependent) than people aged over 64 (0.51% non-harmful use, harmful use of 0.16% and 0.59% of alcohol-dependent). The prevalence of excessive and repetitive drinking also varies with age and between 18-24 years, it reached a peak, while the lowest level was observed at age 65 and over (Educ'alcool, 2005). Therefore the overall trend shows a decline in consumption of alcohol by subjects with age: they drink more frequently but the quantities consumed are smaller, especially among men (Assanangkornchai *et al.*, 2000). The prevalence of excessive consumption of sodabi is higher among the unemployed (12.35%) than other professions: farmers (9.93%), manual workers (8.76%), craftsmen, traders and business leaders (8.68%), employees (6.34%), managers (3.26%) and intermediate professions (1.75%). The high consumption rate of sodabi by the unemployed, peasants and farmers may be related to the fact that these socioprofessional categories of the population do not have the necessary economic resources and give themselves to alcoholism easily. Indeed, as shown by Gruenewald *et al.*, (2006), the change in youth behavior in the face of increases in the price of industrially produced alcohol is evident. Price increases may result in consumers reducing their overall consumption or substituting with other cheaper drinks (OMS, 2006). The unemployed were 2.4 times more likely to suffer from alcohol dependence than those who exercise a professional activity (Anthony *et al.*, 1994). According to Agoudavi *et al.*, (2015), those with a fragile socioeconomic status, appear to be more vulnerable to the problems and consequences of alcoholism. This study has also found that some sodabi consumers (36.91%) drink also beers, more precisely craft beers such as tchoukoutou, tchakpalo and Lossomissine which are different types of sorghum beer in Togo. Thus, 22.71% of subjects are interested in tchoukoutou, 11.37% in tchakpalo and 10.32% in Lossomissine. As for the beers, which are the first to be excessively Lossomissine. As for the beers, which are the first to be excessively Lossomissine. As for the beers, which are the first to be excessively consumed whatever the group criteria considered, they employ the most attractive and aggressive marketing actions (Yao et al., 2015). Among the excessive consumers of alcohol, there are two times more men (58%) than women (36%) (RR = 1.61), a thesis confirmed by Kairouz *et al.*, (2008). The prevalence of excessive consumption is similar among subjects living alone or as couples (RR = 1.21). In contrast, for authors such as Com-Ruellele *et al.*, (2008), the risk of excessive drinking is especially concentrated among single people, men or women. The prevalence of harmful alcohol consumption was higher among married and divorced participants as reported by Agondayi *et al.* (2015) reported by Agoudavi et al., (2015).

Among consumers of excess alcohol, the risk is identical regardless of the professional category (RR = 1.13). The majority of respondents (81.48%) consumed sodabi for less than ten years. In the 35-44 age group, 6.57% consumed sodabi for over ten years. Traditional alcoholic beverages

represent a hidden dimension of the problems related to alcohol consumption in many developing countries. The use or abuse of alcohol among drinkers is usually accompanied by other types of risky behavior such as smoking. 84.81% of the drinkers said they had not used other harmful substances; 12.69% use tobacco; 2.25% eat cola and 0.25% of drinkers take other drugs. 21.05% of drinkers have never frequented drinking establishments but 25.51% visited drinking establishments once a week and 22.10% almost every day. 87.54% of drinkers in the Maritime Region and Lomé Commune visited drinking establishments. The euphoric effect of alcohol (45.23%) and the consolidation of friendly ties (19.39%) brought about by visits to drinking establishments was about 64.62%. These desired effects explain the presence of sodabi at all ceremonial occasions. Indeed, the euphoric and comforting effects aside, alcohol facilitates human relations and promotes comforting effects aside, alcohol facilitates human relations and promotes adjustment to the group (Yeo-Tenena *et al.*, 2006). Alcohol abuse is also associated with a range of social problems, as well as physical and mental disorders, including depression and anxiety, obesity and risk of accidents (Currie *et al.* 2010). When it comes to home brew, it's not without some degree of risks of the occurrence of methanol in the resulting beverages. Methanol also known as wood alcohol is highly toxic to the human body, and its consumption can lead to serious consequences such as blindness and even death. Studies have shown that the first stillage that comes out of a still during the production of sodabi, is often loaded with methanol and must be thrown out. Besides there are some dangers of methanol poisoning from the thrown out. Besides, there are some dangers of methanol poisoning from the ingestion of adulterated sodabi laced with methanol by unlicensed brewers in order to increase the alcoholic content. Fortunately it was found in the sodabi in question only traces of methanol at doses that pose no serious risk of toxicity on consumption. Methanol occurs naturally in fruits and vegetables (World Health Organization, 1997). The production of free methanol in all these instances is the result of hydrolysis of methylesters in pectin, which will break down to methanol when the plant cell walls and middle lamellae are disrupted, as can happen through physical processes of food preparation (Anthon and Barrett, 2010). In this study, among the damage caused by (Anthon and Barrett, 2010). In this study, among the damage caused by sodabi abuse, 39.26% of complications are somatic damage or neurological disorders such as decreased libido (2.6%), fatigue (8.89%), sweat (13.98%), tremor (4.93%), fatigue and pain (4.66%). Sodabi is a risk factor that can lead to cardiovascular disease (0.87% of the cases in our study), a thesis supported by Corrao *et al.* (2000) who claim that alcohol increases cardiovascular disease. 60.74% of all other damages mentioned by drinkers are psychological and psychiatric complications. Among the most important complications are agitations (12.75%), loss of self-control (10.92%); incoherent and slurred speech (10.51%); attention deficit (8.54%), insomnia (6.62%), personality disorder (5.76%) and depression (1.96%). Alcohol consumption is associated with many other neuropsychiatric disorders, such as depression or anxiety disorders (Kessler, 2004; Boden and Fergusson, 2011). The results, supported by numerous studies, show that depressed individuals with mood disorders are at high risk of alcohol dependence and vice versa (Regier et al., 1990).

In the African Region, the disease burden due to neuropsychiatric disorders and unintentional injuries attributable to alcohol is high among and (OMS, 2002). hoth women men This is the first study on sodabi consumption in Togo. The objective is to help guide prevention efforts to reduce prevalence.

Conclusion

Conclusion

The study showed that consumption of sodabi is not evenly distributed in the population of Togo. Sodabi consumption is more popular in the Maritime region and the Lomé Commune, in the Kara region and especially in the Central Region. The differences in consumption in the population are related to the level of development of their environment, their financial means and the availability of alcohol products. Sodabi is widespread and appreciated, and it is difficult to have the perspective and objectivity to realize its problems and deal with them. Men, more than women, consumed sodabi abusively. The fact of having consumed alcohol in the past year changes with age and abusive consumption is more important from age 25. Meanwhile, information campaigns must take into account the quantities of alcohol consumed, and consumption patterns in different regions of the country, because, although alcohol often has connotations of pleasure and sociability, its adverse consequences are very diverse. Moreover, technical assistance for the production of this alcohol would allow to identify the various quality problems in sodabi production.

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