PREVELANCE OF ALCOHOL DEPENDENCE SYNDROME AMONG ADULTS AND ITS ASSOCIATED SOCIO DEMOGRAPHIC FACTORS - A CROSS SECTIONAL STUDY

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Abstract

Background: Alcohol dependence, as defined by American national Cancer Institute, is "A chronic disease in which a person craves drinks that contain alcohol and is unable to control his or her drinking. At ohol dependence affects physical and mental health, and can cause problems with family, friends, and work. The Magnitude of Substance Use in India, 2019 (National Drug Use Survey 2019, NDUS) was the first-ever comprehensive attempt to document the extent and pattern of substance use at the level of states of India. The WHO ASSIST screening questionnaire was used to interview 200,111 households in 36 states and Union Territories (UTs). Alcohol emerged as the most prevalent psychoactive substance, with 14.6% of the population aged 10–75 using it, including 5.2% with problematic usage and 2.7% dependent. Men had notably higher usage rates at 27.3% compared to women at 1.6% and children aged 10–17 at 1.3%. Country liquor and spirits were the most consumed types. Most of the above findings have been demonstrated in various studies conducted in the West. However, such studies in India are very limited and 25 atever little has been published have got very limited scope.

Objective: This study was undertaken to assess the prevalence of Alcohol Dependance syndrome and to identify a denlist its various associated factors among adults in Bangalore.

Study Design: A cross sectional questionnaire-based study was conducted among the adults attending the Outpatient Department of a tertiary care hospital in Bengaluru.

Methods: After obtaining, informed written consent was taken from the study participants. A predesigned, pretested, validated questionnaire was used to collect the required data. For selection of the required sample size of 125 people from the above population, simple random sampling technique was followed. Socio demographic data, alcohol use history was collected using a semi structured pro-forma developed in the department 13 this study and validated with the help of subject experts. Levels of Alcohol Dependence among the patients was assessed using the Alcohol Use Disorders Identification Test (AUDIT) score, which is a 10-question screening tool fc 31 cohol consumption. The same shall be further categorized into the Obsessive-Compulsive drinking categories using the Obsessive-Compulsive Drinking Scale.

Results: Among the 125 study subjects analysed, based on their AUDIT scores. 72.8% 32e "Alcohol dependant", 15.2% were on "Harmful drinking" and the remaining 12% were on "hazardous" levels of alcohol use. The factors significantly associated with 3 leohol dependence were Age, Income and Marital Status of the study subjects. Alcohol dependence among the study subjects was also significantly associated with obsession and compulsion towards alcohol intake, alcohol craving and stigmatisation of study subjects.

Conclusions: Majority of the adult population studied were "Alcohol dependent" and dfactors like Age, Income and Marital status of the study subjects were stastistically associated with Alocohol Dependence among them.

Introduction:-

21

Alcohol dependence, as defined by American national Cancer Institute, is "A chronic disease in which a person craves drinks that contain alcohol and is unable to control his or her drinking. Alcohol pependence affects physical and mental health, and can cause problems with family, friends, and work [1]." In May 2013, the American

Psychiatric Association issued the fifth edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM–5). DSM–5 integrates the two DSM–IV disorders, alcohol abuse and alcohol dependence, into £2 pgle disorder called alcohol use disorder (AUD) with mild, moderate, and severe sub-classifications [2]. Clinical studies demonstrated that alcohol-dependent people are more sensitive to relapse-provoking cues and stimuli than nondependent people, and sin 15 r observations have been made in animal models of alcohol dependence, withdrawal, and relapse [3]. In the dependent individual, this allostatic state is fueled 17 progressive dysregulation of the brain's reward and stress systems beyond their normal homeostatic limits [4]. The Magnitude of Substance Use in India, 2019 (National Drug Use Survey 2019, NDUS) was the first-ever comprehensive attempt to document the extent and pattern of substance use at the level of states of India. The WHO ASSIST screening questionnaire was used to interview 200,111 households in 36 states and Union Territories (UTs). Alcohol emerged as the most prevalent psychoactive substance, with 14.6% of the population aged 10–75 using it, including 5.2% with problematic usage and 2.7% dependent. Men had notably higher usage rates at 27.3% compared to women at 1.6% and children aged 10–17 at 1.3%. Country liquor and spirits were the most consumed types [36].

Most of the above findings have been demonstrated in various studies conducted in the West. Howeve 33 uch studies in India are very limited and whatever little has been published have got very limited scope. Hence 36 s study was undertaken to assess the effect of stigma in alcohol dependent male patients and also to assess the association between Serum Calcium levels and Intensity of craving in such dependent patients.

Methods:-

This is a descriptive cross- sectional study which was carried out in the Dept of Psychiatry, RajaRajeswari Medical College Hospital in a perio17 of 1.5 years. The Dept of Psychaitry has an average OP strength of 412 patients monthly. For selection of the required sample size of 125 people from the above population, simple random sampling technique was followed 17 fter establishing a rapport with the patient, an informed written consent with signature or thumb impression was obtained from each individual prior to administering the semi-structured questionnaire using Interview method. Questions were also asked regarding use of alcohol, duration, factors influencing, history of quitting etc. Socio demograph 13 data, alcohol use history will be collected using a semi structured pro 13 rma developed in the department for this study. The categorization of alcohol use among patients shall be done using the Alcohol Use Disorders Identification Test (AUDIT) score, which is a 10-question screening tool for alcohol consumption. The same shall be further 3 ategorized into the Obsessive Compulsive drinking categories using the Obsessive Compulsive Drinking Scale. The OCDS is composed of 14 iter 3, and each item has a 5-point response (from 0 to 4 by self-report). The total score of 14 items ranges from 0 to 56. Four pairs of original items are calculated into four adjusted scores: the higher score between items 1 and 2, the higher score between items 7 and 8, the higher score between items 9 and 10, and the higher score between items 13 and 14 are identified as representing scores of the item pairs, respectively. Therefore, the adjusted total score is calculated by adding up 10 of all 14 items together, including 6 original item scores (item 3 to 6, item 11, item 12) and four adjusted item scores from the four pairs of original items (item pair 1 and 2, item pair 7 and 8, item pair 9 and 10, and item pair 13 and 14). The adjusted total score ranges from 0 to 40, and the higher total score indicates more obsessive thoughts or compulsive behaviors regarding alcohol use.

Ethics

The Institutional Ethical Committee of RajaRajeswari medical College Hospital has reviewed and approved this study at each stage.

Statistics

All the data was entered into, coded and decoded in MS EXCEL. It was analyzed using SPSS version 20.0 in which statistical significance was determined with Pearson Chi-Square test. A p value less than 0.05 was taken as statistically significant.

Results:-

90% of the study subjects belonged to the younger age group (<50 years of age) and 10% belonged to the age group above 50 years. There was no significant skew in the data with respect to the Education distribution of study subjects. 31.2% of study subjects had an education only up to the level of 10th standard. 70.4% of the study subjects

were married and almost 20% were single. 27.2% of study participants were self employed, 24.8 % were semi skilled workers, 20.8% were professionally employed and the remaining were either not employed or unskilled workers. Almost 65% of the study subjects had a moderate income <5000 Indian rupees per month and only 5% had a monthly income >1 lakh Indian rupees per month. Almost 60% of the study subjects reported that they were light drinkers who consumed alcohol only 1-2 days / week whereas 4% of study subjects reported that their drinking habits were daily and uncontrolled. Correspondingly, 66% of the study subjects reported that they did not consider themselves "Alcoholics" whereas 19% claimed that they are "Alcoholics". 15% of the study subjects were unsure if they were an alcoholic. Almost 50% of the study subjects agreed that they were in the habit of using alcohol since more than ten years in varying quantities and proportions. However, none of the study subjects attempted to quit alcohol at any stage.75.2% of the study subjects admitted that they were using other psycho-active substances along with alcohol of which almost 3% admitted that they were into various forms of addictive substances including Cigarette /Tobacco / Inhalational substances and intravenous substances.

As can be seen in Figure 1, there is a very significant association between age group of the study participants and the frequency of their use. Among the study participants aged less than 50 years, 43 aged between 31 -40 years and among them, almost 53.4% were reported to be drinking only one - two days per week and 46.6% were drinking > 3 days per week. None of them reported that their drinking was uncontrolled.

As is noted in table No. 1, there is a very significant association between educational status of the study participants and the frequency of their alcohol use. Among the 31 study participants who were schooled till High School and among the 31 who were educated till Higher Secondary Class, 61.5% and 42% reported to be drinking only one - two days per week respectively and 30.7% and 50.8% respectively were drinking > 3 days per week. None of the study subjects who studied till Higher Secondary School reported that their drinking was uncontrolled. It is to also be noted that among the 5 study subjects who reported daily uncontrolled drinking were, 20% were schooled till High School level and 40% were either Post Graduates of PhD holders.

As is seen in Table No. 2, Among the 125 study subjects analysed 22 ne of the study subjects had an Alcohol Use Disorders Identification Test (AUDIT) score less than 7 i.e., none of the study participants were at "low risk" for alcohol dependence based on their AUDIT scores. 72.8% were "Alcohol dependant", 15.2% were on "Harmful drinking" and the remaining 12% were on "hazardous" levels of alcohol use. Among the 91 study subjects who were "Alcohol dependant", 37.4% were aged 31-40 years, 29.7% were 18-30 years and 23% were aged 41-50 years. All of the above study subjects were aged less than 50 years which indicates that their alcohol abuse could have a long time bearing on their health pursuits. Among the 91 "alcohol dependant" study subjects, 71.4% were married, and almost 21% were single. Among the "Alcohol dependant" study subjects, 65.9% were earning between 10 – 50,000 INR per month and 16.5% were earning between 50,000 – 1 lakh INR per month. However, 30 association between the AUDIT scores and Age group, Income and Marital Status of the study subjects was not found to be statistically significant.

According to Fig. No. 2, there is a very significant association between age group of the study participants and the frequency of their use. Among the study participants aged less than 50 years, 43 aged between 31 -40 years and among them, almost 53.4% were reported to be drinking only one - two days per week and 46.6% were drinking > 3 days per week. None of them reported that their drinking was uncontrolled. It is to also be noted that among the 5 study subjects who reported daily uncontrolled drinking were, 60% were aged > 60 years and 40% were aged <31 years. The Chi square test results state that this association between age and frequency of alcohol consumption is statistically very significant (p value <0.0005). On applying Linear regression, it was found that the linear relation

ween the dependent variable (age) and the independent variable (frequency of alcohol consumption) was very highly significant (p value>0.001).

Discussion:-

In our study it 13s observed that almost 90% of the study subjects belonged to the younger age group (<50 years of age) and 10% belonged to the age group above 50 years. There was no significant skew in the data with respect to the Education distribution of study subjects. 70.4% of the study subjects were married and almost 20% were single. 27.2% of study participants were self employed, 24.8 % were semi skilled workers, 20.8% were professionally employed and the remaining were either not employed or unskilled workers. Almost 65% of the study subjects had a moderate income <50,000 Indian rupees per month and only 5% had a monthly income >1 lakh Indian rupees per month.

Almost 60% of the study subjects reported that they were light drinkers who consumed alcohol only 1-2 days / week whereas 4% of study subjects reported that their drinking habits were daily and uncontrolled. Correspondingly, 66% of the study subjects reported that they did not consider themselves "Alcoholics" whereas 19% claimed that they are "Alcoholics". 15% of the study subjects were unsure if they were an alcoholic. Almost 50% of the study subjects agreed that they were in the habit of using alcohol since more than ten years in varying quantities and proportions. However, none of the study subjects attempted to quit alcohol at any stage. 75.2% of the study subjects admitted that they were using other psycho-active substances along with alcohol of which almost 3% admitted that they were into various for of addictive substances including Cigarette / Tobacco / Inhalational substances and intravenous substances 1 he 12-month prevalence of AUDs in India in the year 2010 was 2.6% and that of alcohol dependence was 2.1%. The National Mental Health Survey of India 2015–16 found the pr 14 lence of AUDs to be 9% in adult men [22]. As per a study conducted in Madhya Pradesh by Hamagle et al [23], Of the 3586 study participants, about 44 (12.10%) were found to have an ADS i.e. 7.96% of the total strength were found to be problem drinkers [23]. India used to be one of those countries which had lowest consumers of alcohol but now there are about 14 million people who are alcohol dependent and require help. As per the National Family Health Survey (NFHS)-4, 29.2% men and 1.2% women, whereas in NFHS -5, 18.8% men and 1.3% women consume alcohol. After comparing the trends from NFHS-4 and 5, it is evident that there is a gradual decrease in this practice. While NFHS findings indicate a decreasing trend, WHO's report on Status on Alcohol Use and Health at Global level (2018) indicates a 38 per cent increase 71 APC among those aged ≥15 years in India from 2010-2017. The introduction of flavoured alcoholic drinks has increased its consumption by attracting new consumers who were previously non-drinkers [24].

In the current study it was observed that there is a very significant association between age group of the study participants and the frequency of their use. Among the study participants aged less than 50 years, 43 aged between 31-40 years and among them, almost 53.4% were reported to be drinking only one - two days per week and 46.6% were drinking > 3 days per week. None of them reported that their drinking was uncontrolled. It is to also be noted that among the 5 study subjects who reported daily uncontrolled drinking were, 60% were aged > 60 years and 40% were aged <31 years. It was also found that the linear relation between age of the study subjects and the frequency of alcohol consumption was very highly significant.

In another study conducted by Nitu Malik et al [6] was seen that the mean duration of illness was 11.87 years (±2.51) for patients with alcohol dependence and 10.12 (±3.22) years for patients with opioid dependence. The mean age of onset of substance abuse in AD group was 20.60 years (±3.91) which was less than the mean age of onset in the OD group 28 1.98±5.83 years). However, this difference was not significant. However, not all stud 19 reflect similar ideas. A study conducted in India by Raekha Prasad et al published results which are alarming. The study found out that that the "aver 5e age of initiation" had dropped from 19 years to 13 years in the past two decades. The shifting 5 apposition of Indian drinkers has seen a rise in the number of Indian youth drinking 14 ularly and heavily. It is all about getting young people to start early and be life-long consumers. [16]. Similarly according to studies conducted by Alcohol and Drugs Information Centre India, a non-governmental organization (NGO) in Kerala, there has been an increase from 2% to more than 14% in the drinking population aged under 21 years [24]. In the current study, it was observed that 38.6% of the 88 study participants w 35 yere married and 12.0% of the 25 study subjects who were single were drinking > 3 days per week. However, this association was not found to be statistically significant.

In a study conducted by Nitu Malik et al [6], it was seen that the Alcohol Dependant group had more number of married subjects (83.3%). The Schizophrenic group patients had more of unmarried subjects (56.7%). The Opioid Dependant group comprised of equal number of patients (50%) with the married and

unmarried status. As per the Chi-square test these differences between the 3 groups were significant. Ajit Kumar Lenka et al [24] in their study titled "Tevalence of Alcohol use among the Indian Population and its Impact on Public Health" are of the opinion that NFHS-3 (2005- 6) has indicated that the experience of spousal physical or sexual violence varies with level of the husband's alcohol consumption. 69% of women whose husbands got drunk often had experienced spousal violence, as compared with 30% of women whose husbands did not drink alcohol. These numbers were much higher compared to our observations.

In the current study, it was observed that, among the 91 study subjects who were "Alcohol dependant", 37.4% were aged 31-40 years, 29.7% were 18-30 years and 23% were aged 41-50 years. All of the above study subjects were aged less than 50 years which indicates that their alcohol abuse could have a long time bearing 2n their health pursuits. This association between age of the study participants and frequency of their alcohol use was 22 nd to be statistically significant. It was also seen that there is a very significant association between occupation of the study participants, monthly income of the study participants and the frequency of their alcohol use.

However, in a study conducted by Bhattacharya R, Nitu Mallik et al titled "Burden and Coping of Caregivers of 6 fen with Alcohol and Opioid Dependence [6]" it was seen that significant difference on alcohol consumption were only obtained on the variable of marital status. None of the other variables like age, family income, locality or family type were significantly associated \$\frac{1}{2}\$ halcohol use. The World Report on "Alcohol Use on the rise in India [19]" as authored by R Prasad states that, officially, Indians are still among the world's lowest consumers of alcohol—government statistics show only 21% of adult men and around 2% of women drink. But up to a fifth of this group—about 14 million people—are dependent drinkers requiring "help". The concern is that there has been a rapid change in p5 erns and trends of alcohol use in India. Chief among them is people are beginning to drink at ever-younger ages. There is evidence even to suggest that the p5 rare beginning to drink more than they earn—a deadly spiral of alcohol and debt. The study also reports that the average monthly expenditure on alcohol of patients with alcohol addiction is more than the average monthly salary. These results proposes what the currently study directly hints - that age and income are factors that are associated with alcohol use among the public.

Figures:

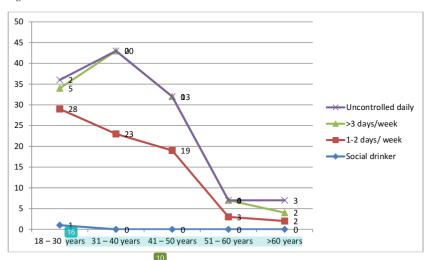


Fig No. 1:- Line diagram depicting the distribution of study subjects on the basis of Age and Frequency of Alcohol use (n = 125).

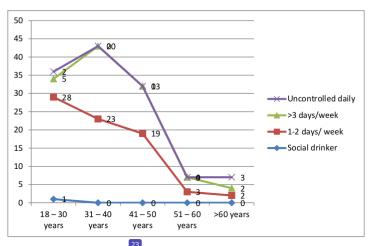


Figure 2: Line diagram depicting the distribution of study subjects on the basis of Age and Frequency of

Alcohol use (n = 125)

Tables

Table No. 1 – Distribution of study subjects on the basis of Education and Frequency of Alcohol use (n =125)

Education Grade		Frequency of Use			
Education Grade	Social drinker	1-2 days/ week	>3 days/week	Uncontrolled daily	Total
No formal Education	0	8	0	0	8
Primary School	0	3	3	0	6
High School	0	24	12	3	39
Higher Secondary School	0	13	18	0	31
Degree / Diploma	0	16	9	0	25
Post graduate / Ph D	0	5	2	2	9
Professional Education	1	6	0	0	7
Total	1	75	44	5	125
Pearson Chi-Square value – 4	14.450	df:18	p value <0.001		

Table No. 2 – Distribution of study subjects on the basis of demographic factors and AUDIT scores (n = 125)

		AUDIT score				
Age Group	Hazardous Drinking	Harmful Drinking	Alcohol Dependence	Total	Chi square value	P value
18 – 30 years	3	6	27	36		
31 – 40 years	4	5	34	43	1	
41-50 years	6	5	21	32	2.002	0.866
51- 60 years	1	2	4	7	3.903	0.866
>60 years	1	1	5	7]	
Total	15	19	91	125		
		AUDIT score				
Education	Hazardous Drinking	Harmful Drinking	Alcohol Dependence	Total	Chi square value	P value
No formal Education	2	1	5	8		
Primary School	1	0	5	6		
High School	3	7	29	39		0.892
Higher Secondary School	5	5	21	31	6.441	
Degree / Diploma	3	4	18	25		
Post graduate / Ph D	0	2	7	9	1	
Professional Education	1	0	6	7	1	
Total	15	19	91	125		
		AUDIT score				
Marital Status	Hazardous Drinking	Harmful Drinking	Alcohol Dependence	Total	Chi square value	P value
Single	1	5	19	25		
Committed	2	1	4	7	1	
Married	12	11	65	88	7.222	0.513
Divorced	0	1	2	3	1.222	0.513
Spouse Deceased	0	1	1	2		
Total	15	19	91	125		
		AUDIT score				İ
Monthly Income (in INR)	Hazardous Drinking	Harmful Drinking	Alcohol Dependence	Total	Chi square value	P value
1 – 10,000.00	1	0	6	7		
10 - 50,000.00	13	8	60	81		
50,000.00 – 1 Lakh	0	8	15	23		
>1 Lakh	0	1	5	6	14.078	0.080
Prefer Not to Say	1	2	5	8		
Total	15	19	91	125		

Monthly Income (in INR)	Frequency of Use				Total	
	Social drinker	1-2 days/ week	>3 days/week	Uncontrolled daily	Total	
1 – 10,000.00	0	4	0	3	7	
10 - 50,000.00	1	50	30	0	81	
50,000.00 – 1 Lakh	0	11	10	2	23	
>1 lakh	0	4	2	0	6	
Prefer Not to Say	0	6	2	0	8	
Total	1	75	44	5	125	

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Declarations

Funding:

Nil.

Conflict of interest:

The authors have no conflicts of interest associated with the material presented in this paper.

Ethical annroyals

Obtained from the Institutional Ethics Committee, RajaRAjeswari Medical College Hospital, Bengaluru.

Author Contributions:

Conceptualization- JP, VV, NSN.; Formal analysis-NSN.; Methodology-VV,JP.; Visualization-VM,SJ,JP.; Writing—original draft-JP, VV, NSN; Writing—NSN; Review and editing-NSN, VV, VM

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