# LIFESTYLE PATTERN AMONG THE PEOPLE LIVING WITH AIDS IN EASTERN NEPAL

## Mehta RS, Karki P

B. P. Koirala Institute of Health Sciences, Dharan, Sunsari, Nepal

# ABSTRACT

**Introduction:** In world more than 40 million people are living with HIV/AIDS, 2.3 million are under 15 yrs and 14000 new infections occur daily. The objectives of this study was to assess the lifestyle pattern among the people living with AIDS (PLWA) receiving anti-retroviral therapy at B. P. Koirala Institute of Health Sciences and find out the association between lifestyle pattern and the selected demographic variables.

**Methodology:** A descriptive cross-sectional research design was used to assess lifestyle pattern of the PLWA receiving anti-retroviral therapy at the ART clinic of Tropical ward at B.P Koirala Institute of Health Sciences (BPKIHS). The PLWA receiving ART at BPKIHS for more than or equal to three months at the ART clinic who met the selection criteria constituted the sample of the study. Using purposive sampling technique total 113 PLWA were selected. The patients who themselves were physically present during the data collection period were included in the study, after their consent for the purpose.

**Results:** It was found that most of the PLWA were of age less than 40 years, male (61.1%), residing in urban area (74.3%), married (75.2%) and Hindu (74.3%). It was found that 83.2% PLWA never do exercise, whereas 8.8% perform regularly. Most of the (91.2%) people living with AIDS reported feeling pressure and stress in daily life. About 57% PLWA only sleep less than 6 hours per day. About half (52.2%) of the PLWA never take food outside home, where as 34.5% take food outside regularly. The habit of using tobacco is present among 28.3% people living with ADIS, where the past history of using was 39.8%. Similarly only 0.9% PLWA had habit of taking alcohol at present and 63.7% in past; and 28.3% had habit of taking substances in past. The association calculated between selected demographic variables (age, sex, marital status, residence and religion) with lifestyle pattern (exercise, tobacco chewing, alcohol consumption, and food habit) found significant association between marital status and exercise (p < 0.001), Tobacco consumption and age (p < 0.001) only.

**Conclusion:** The positive life style practices among the PLWA found high at present in comparison to past especially in relation to Tobacco, Alcohol and Substance use. Individual counseling and support is vital for improving the condition.

Key words: Life-style, People Living with AIDS, Counseling, ART

## INTRODUCTION

HIV/AIDS is a global epidemic which first emerged in 1981 in the USA. Since then, the epidemic has

#### Correspondence:

Prof. Dr. Ram Sharan Mehta Medical-Surgical Nursing Department B. P. Koirala Institute of Health Sciences Dharan, Sunsari, Nepal. E-mail: ramsharanmehta@gmail.com claimed lives of nearly 30 million people worldwide, the worst conditions being in the Sub- Saharan countries.<sup>1</sup>

<u>South Africa</u> is reported to have the largest population living with the disease. In terms of prevalence, countries such as <u>Afghanistan</u>, <u>Saudi</u> <u>Arabia</u>, and <u>Cape Verde</u> are reported to have the lowest prevalence of the disease among reported nations, at less than 0.1% of their population.<sup>2</sup> According to UNAIDS/WHO, 47% of the established 14.2 million people eligible for the treatment in low and middle income countries were accessing ART (Anti Retro Viral) therapy in 2010.<sup>3</sup>

The AIDS picture in South East Asia is dominated by the epidemic in India. Migrants in particular are vulnerable and 67% of the infected in Bangladesh and 41% in Nepal are migrants returning from India.<sup>4</sup>

In a study done by the Department of Foods, Nutrition and Dietetics, Kenyatta University, among the HIV/AIDS infected two districts of South Africa , it was found out that majority of PLWHA consume foods that are low in nutrients to build up the immune system and help maintain adequate weight, and there is little variety in the foods they consume.<sup>5</sup> In fact, the linkages between HIV/AIDS and food security are bi-directional: HIV/AIDS is a determining factor of food insecurity as well as a consequence of food and nutrition insecurity.<sup>6</sup>

# METHODOLOGY

A descriptive cross sectional research design was used to assess lifestyle pattern of the people living with AIDS receiving anti-retroviral therapy at the ART clinic of Tropical ward at BPKIHS. The PLWA receiving ART at BPKIHS for more than or equal to three months at the ART clinic who met the selection criteria constituted the sample of the study. Total 113 PLWA were selected using purposive sampling technique. The patients who themselves were physically present during the data collection period were only included in the study, with their consent for the purpose.

### RESULTS

It was found that most of the PLWA were of age less than 40 years, male (61.1%), residing in urban area (74.3%), married (75.2%) and Hindu (74.3%). It was found that 83.2% PLWA never perform the exercise, whereas 8.8% perform regularly. Majority (91.2%) of the PLWA expressed the feeling of pressure and stress in daily life. About 57% PLWA only sleep less than 6 hours per day. About half (52.2%) of the PLWA never take food outside home whereas 34.5% take regularly. PLWA residing in eastern Nepal receiving ART at BPKIHS had habit of taking tobacco more in past (39.8%) in comparison to present (28.3%). Similarly only 0.9% PLWA had habit of taking alcohol at present

and 63.7% in past; and 28.3% had habit of taking substances in past. The association calculated between selected demographic variables (age, sex, marital status, residence and religion) with lifestyle pattern (exercise, tobacco chewing, alcohol consumption, and food habit) found significant association between marital status and exercise (p <0.001), and Tobacco consumption and age (p <0.001) only. The details of the results are depicted in the table 1 to 4.

	. Socio-dem vith AIDS (n		aracteristics	of the People						
	Socio-de	mographic	Responses							
SN		teristics	Number	%						
	Age group	(in years)	•							
	≤ 25	<u> </u>	15	04.4						
	26- 30		19	16.8						
	31- 35		35	31.0						
1	36- 40		30	26.5						
	41- 45		12	10.6						
	≥ 46		12	10.6						
	Mean = 36	.3 SD	= 8.268	Range= 19-7						
	sex									
2	Male		69	61.1						
	Female		44	38.9						
	Residence	)								
3	a. Rural		29	25.7						
	b. Urban		84	74.3						
	Marital Sta	itus								
	a.	Unmarried	85	75.2						
4	b.	Married	15	13.3						
	C.	Divorced	12	10.6						
	d.	Widow	01	0.9						
	Religion									
	a. Hindu		84	74.3						
-	b. Buddl	nist	17	15.0						
5	c. Muslir	n	1	0.9						
	d. Christ	ian	5	4.4						
	e. Kirata	l	6	5.3						
	Family Income / Month ( in Rupees)									
	4000- 1400	00	26	23.01						
_	15000- 250	000	26	23.01						
7	26000- 360	000	21	18.58						
	37000- 470	000	23	20.35						
	≥48000		17 15.04							
	Mean = 29 Range = 4	,982.30 000- 80,000	SD= 18, 968	3.010						

Table 2. Distribution MI of the Respondentsaccording to HIV Status, Assessed Dietary Pattern &B (n= 113)

SN	Characters	Categories (in months)	ART consumption Frequency (%)							
1	Duration of ART consumption	3 – 12	30 (26.55)							
	consumption	13 – 36	42 (37.17)							
		37- 60	35 (30.97)							
		> 60	6 (5.31)							
Mean = 33.13, SD = 23.735, Range = 3-1										
2	CD4 count At the Start of	≤ 50	10 (8.85)							
	Therapy	51 – 250	79 (69.9)							
		251- 500	23 (20.35)							
		≥ 501	1 (0.9)							
Mean	= 184.24, SD =	101.692,	Range = 2- 524							
3	Diet Habit	Non- Vegetarian	112 (99.1)							
		Vegetarian	1 (0.9)							
4	Frequency of Eating/ day	3times	6 (5.31)							
		4 times	17 (15.04)							
		5 times	74 (65.49)							
		≥6times	16 (14.16)							
5	Composition of Major Meals is	Carbohydrates	111 (98.23)							
	mostly	Proteins	2 (1.77)							
6	Nutritional Supplement Consumption (NCASC)	Positive response	29 (25.66)							
	Body Mass Index (BMI)	Frequency	Percentage							
7	< 18.5 (malnourished)	28	24.79							
	18.5 – 24.9 (normal)	73	64.60							
	25- 29.9 (overweight)	12	10.62							
	≥30	0	0							

(n=113)           SN         Lifestyle Pattern         No.         %           1         Exercise habit:		3. Lifestyle Pattern, Tobacco Chewin									
Image: scalar stress:         Image: scalar stress:         Image: scalar stress:           a. Daily         10         8.8           b. Alternate day         2         1.6           c. 1-2/week         7         6.2           d. Never         94         83.2           2         Feeling under pressure and stress:         Image: scalar stress:         Image: scalar stress:           a. Often         103         91.2         b. Occasionally         2         1.8           b. Occasionally         2         1.8         7.1         Scalar stress         7.1           3         Hours of sleep per day:         Image: scalar stress         1         0.9           4         Ac 6 hrs         64         56.6         56.6         5.2           c. >8 hrs         1         0.9         39         34.5           b. Alternate day         11         9.7         5.2         5           Smoking/Tobacco Chewing habits:         Image: scalar stress         32         28.3           b. No         81         71.7           Past history:         Image: scalar stress         32         28.3           b. No         81         71.7           Past history:	Habit, Alcohol & Drug Consumption Habit among the PLWA (n=113)										
a. Daily         10         8.8           b. Alternate day         2         1.6           c. 1-2/week         7         6.2           d. Never         94         83.2           2         Feeling under pressure and stress:         -           a. Often         103         91.2           b. Occasionally         2         1.8           c. Never         8         7.1           3         Hours of sleep per day:         -           a. < 6 hrs         48         42.5           b. 6-8 hrs         64         56.6           c. >8 hrs         1         0.9           4         Taking food outside the home:         -           a. Daily         39         34.5           b. Alternate day         11         9.7           c. 1-2/week         4         3.5           d. Never         59         52.2           5         Smoking/Tobacco Chewing habits:         -           Present history:         -         -           a. Yes         32         28.3           b. No         68         60.0           Present onsuming habits of different:         -           a. Yes	SN	Lifestyle Pattern	No.	%							
Internate day         2         1.6           c.         1-2/week         7         6.2           d.         Never         94         83.2           2         Feeling under pressure and stress:	1	Exercise habit:									
Instruction         Image: Construction           c.         1-2/week         7         6.2           d.         Never         94         83.2           2         Feeling under pressure and stress:		a. Daily	10	8.8							
d. Never         94         83.2           2         Feeling under pressure and stress:		b. Alternate day	2	1.6							
Feeling under pressure and stress:         Image: mathematical stress:           a. Often         103         91.2           b. Occasionally         2         1.8           c. Never         8         7.1           3         Hours of sleep per day:         7           a. < 6 hrs		c. 1-2/week	7	6.2							
a. Often         103         91.2           b. Occasionally         2         1.8           c. Never         8         7.1           3         Hours of sleep per day:         -           a. < 6 hrs		d. Never	94	83.2							
International product         International product         International product           b.         Occasionally         2         1.8           c.         Never         8         7.1           3         Hours of sleep per day:	2	Feeling under pressure and stress:									
Image         Image <th< td=""><td></td><td>a. Often</td><td>103</td><td>91.2</td></th<>		a. Often	103	91.2							
3         Hours of sleep per day:         48         42.5           a. < 6 hrs		b. Occasionally	2	1.8							
a.         < 6 hrs         48         42.5           b.         6-8 hrs         64         56.6           c.         >8 hrs         1         0.9           4         Taking food outside the home:         -         -           a.         Daily         39         34.5           b.         Alternate day         11         9.7           c.         1-2/week         4         3.5           d.         Never         59         52.2           5         Smoking/Tobacco Chewing habits:         -         -           a.         Yes         32         28.3           b.         No         81         71.7           Past history:         -         -         -           a.         Yes         32         28.3           b.         No         81         71.7           Past history:         -         -         -           a.         Yes         32         28.3           b.         No         68         60.0           Present consuming habits of different:         -         -           a.         Chewing tobacco         19         11.8 <tr< td=""><td></td><td>c. Never</td><td>8</td><td>7.1</td></tr<>		c. Never	8	7.1							
Image: construct of the second seco	3	Hours of sleep per day:									
Image: Section of the sectio		a. < 6 hrs	48	42.5							
4         Taking food outside the home:		b. 6-8 hrs	64	56.6							
a. Daily         39         34.5           b. Alternate day         11         9.7           c. 1-2/week         4         3.5           d. Never         59         52.2           5         Smoking/Tobacco Chewing habits:         9           Present history:         1         10           a. Yes         32         28.3           b. No         81         71.7           Past history:         1         3           a. Yes         45         39.8           b. No         68         60.0           Present consuming habits of different:         1         3           a. Yes         45         39.8           b. No         68         60.0           Present consuming habits of different:         1         11.5           c. Betal chewing         0         0         0           c. Betal chewing         0         0         0           d. Hooka/Chilim         0         0         0           e. Bidi smoking         0         0         0           a. Yes         1         0.9         0           b. No         72         63.7           b. No <t< td=""><td></td><td>c. &gt;8 hrs</td><td>1</td><td>0.9</td></t<>		c. >8 hrs	1	0.9							
Image         Image <th< td=""><td>4</td><td>Taking food outside the home:</td><td></td><td></td></th<>	4	Taking food outside the home:									
c.         1-2/week         4         3.5           d.         Never         59         52.2           5         Smoking/Tobacco Chewing habits:		a. Daily	39	34.5							
d.         Never         59         52.2           5         Smoking/Tobacco Chewing habits:         Present history:		b. Alternate day	11	9.7							
5         Smoking/Tobacco Chewing habits:         Image: Marco Science Scienc		c. 1-2/week	4	3.5							
Present history:         32         28.3           b. No         81         71.7           Past history:         -         -           a. Yes         45         39.8           b. No         68         60.0           Present consuming habits of different:         -           a. Chewing tobacco         19         11.8           b. Cigarette smoking         13         11.5           c. Betal chewing         0         0           d. Hooka/Chilim         0         0           e. Bidi smoking         0         0           f. Hooka/Chilim         0         0           g. Yes         1         0.9           b. No         112         99.1           7         Past habit of alcohol consumption         -           a. Yes         1         0.9           b. No         72         63.7           8         Current habit of consumption of different types of alcohol         -           a. Beer         0         0           b. Wine         0         0           c. Rakshi/Jand         1         0.9           d. Tongba         0         0           e. Whiskey/Rum		d. Never	59	52.2							
a. Yes         32         28.3           b. No         81         71.7           Past history:         -         -           a. Yes         45         39.8           b. No         68         60.0           Present consuming habits of different:         -         -           a. Chewing tobacco         19         11.8           b. Cigarette smoking         13         11.5           c. Betal chewing         0         0           d. Hooka/Chilim         0         0           e. Bidi smoking         0         0           e. Bidi smoking         0         0           a. Yes         1         0.9           b. No         112         99.1           7         Past habit of alcohol consumption         -           a. Yes         1         0.9           b. No         72         63.7           8         Current habit of consumption of different types of alcohol         -           a. Beer         0         0           b. Wine         0         0           c. Rakshi/Jand         1         0.9           d. Tongba         0         0           e. Whiskey/R	5	Smoking/Tobacco Chewing habits:									
b.         No         81         71.7           Past history:         -		Present history:									
Past history:         Image: matrix a state in the		a. Yes	32	28.3							
a.         Yes         45         39.8           b.         No         68         60.0           Present consuming habits of different:		b. No	81	71.7							
a.         Yes         45         39.8           b.         No         68         60.0           Present consuming habits of different:		Past history:									
Present consuming habits of different:         Image: constraint of the system           a.         Chewing tobacco         19         11.8           b.         Cigarette smoking         13         11.5           c.         Betal chewing         0         0           d.         Hooka/Chilim         0         0           e.         Bidi smoking         0         0           e.         Bidi smoking         0         0           for e.         Bidi smoking         0         0           a.         Yes         1         0.9           b.         No         112         99.1           7         Past habit of alcohol consumption         1           a.         Yes         41         36.3           b.         No         72         63.7           8         Current habit of consumption of different types of alcohol         1         0.9           a.         Beer         0         0         0           a.         Beer         0         0         0           b.         Wine         0         0         0           c.         Rakshi/Jand         1         0.9         0			45	39.8							
a.         Chewing tobacco         19         11.8           b.         Cigarette smoking         13         11.5           c.         Betal chewing         0         0           d.         Hooka/Chilim         0         0           e.         Bidi smoking         0         0           e.         Bidi smoking         0         0           f         Present habit of Alcohol consumption         1         0.9           b.         No         112         99.1           7         Past habit of alcohol consumption         1         0.9           a.         Yes         41         36.3           b.         No         72         63.7           8         Current habit of consumption of different types of alcohol         1         0.9           a.         Beer         0         0         0           c.         Rakshi/Jand         1         0.9         0           d.         Tongba         0         0         0           e.         Whiskey/Rum         0         0         0		b. No	68	60.0							
a.         Chewing tobacco         19         11.8           b.         Cigarette smoking         13         11.5           c.         Betal chewing         0         0           d.         Hooka/Chilim         0         0           e.         Bidi smoking         0         0           e.         Bidi smoking         0         0           f         Present habit of Alcohol consumption         1         0.9           b.         No         112         99.1           7         Past habit of alcohol consumption         1         0.9           a.         Yes         41         36.3           b.         No         72         63.7           8         Current habit of consumption of different types of alcohol         1         0.9           a.         Beer         0         0         0           c.         Rakshi/Jand         1         0.9         0           d.         Tongba         0         0         0           e.         Whiskey/Rum         0         0         0		Present consuming habits of different:									
b.         Cigarette smoking         13         11.5           c.         Betal chewing         0         0           d.         Hooka/Chilim         0         0           e.         Bidi smoking         0         0           6         Present habit of Alcohol consumption         0         0           6         a.         Yes         1         0.9           b.         No         112         99.1           7         Past habit of alcohol consumption         1         a.           8         Current habit of consumption of different types of alcohol         72         63.7           8         Current habit of consumption of different types of alcohol         0         0           a.         Beer         0         0         0           b.         Wine         0         0         0           c.         Rakshi/Jand         1         0.9         0         0           d.         Tongba         0         0         0         0         0         0           9         Drug abuse habit:         .         .         Habit in present         0         0         0		¥	19	11.8							
c.         Betal chewing         0         0           d.         Hooka/Chilim         0         0         0           e.         Bidi smoking         0         0         0           6         Present habit of Alcohol consumption         1         0.9           b.         No         112         99.1           7         Past habit of alcohol consumption         1         36.3           b.         No         72         63.7           8         Current habit of consumption of different types of alcohol         1         0.9           a.         Beer         0         0         0           b.         Wine         0         0         0           c.         Rakshi/Jand         1         0.9         0         0           g.         Whiskey/Rum         0 <td></td> <td></td> <td>13</td> <td>11.5</td>			13	11.5							
d.         Hooka/Chilim         0         0           e.         Bidi smoking         0         0         0           Present habit of Alcohol consumption          0         0           6         A. Yes         1         0.9           b.         No         112         99.1           7         Past habit of alcohol consumption             a.         Yes         41         36.3           b.         No         72         63.7           8         Current habit of consumption of different types of alcohol             a.         Beer         0         0            b.         Wine         0         0            c.         Rakshi/Jand         1         0.9            d.         Tongba         0         0            9         Drug abuse habit:			-	-							
e. Bidi smoking         0         0           Present habit of Alcohol consumption		¥	0	0							
Present habit of Alcohol consumptionIa. Yes10.9b. No11299.17Past habit of alcohol consumptionIa. Yes4136.3b. No7263.78Current habit of consumption of different types of alcoholIa. Beer00b. Wine00c. Rakshi/Jand10.9d. Tongba009Drug abuse habit: a. Habit in present00											
6         a. Yes         1         0.9           b. No         112         99.1           7         Past habit of alcohol consumption         9           a. Yes         41         36.3           b. No         72         63.7           8         Current habit of consumption of different types of alcohol         1           a. Beer         0         0           b. Wine         0         0           c. Rakshi/Jand         1         0.9           d. Tongba         0         0           e. Whiskey/Rum         0         0           9         Drug abuse habit:         1           a. Habit in present         0         0			-								
b.         No         112         99.1           7         Past habit of alcohol consumption             a.         Yes         41         36.3           b.         No         72         63.7           8         Current habit of consumption of different types of alcohol             a.         Beer         0         0           b.         Wine         0         0           c.         Rakshi/Jand         1         0.9           d.         Tongba         0         0           9         Drug abuse habit:             a.         Habit in present         0         0	6		1	0.9							
7       Past habit of alcohol consumption       1         a. Yes       41       36.3         b. No       72       63.7         8       Current habit of consumption of different types of alcohol       1         a. Beer       0       0         b. Wine       0       0         c. Rakshi/Jand       1       0.9         d. Tongba       0       0         e. Whiskey/Rum       0       0         9       Drug abuse habit:       1         a. Habit in present       0       0			-								
a. Yes4136.3b. No7263.78Current habit of consumption of different types of alcohol0a. Beer00b. Wine00c. Rakshi/Jand10.9d. Tongba00e. Whiskey/Rum009Drug abuse habit: a. Habit in present00	7										
b. No7263.78Current habit of consumption of different types of alcohol0a. Beer00b. Wine00c. Rakshi/Jand10.9d. Tongba00e. Whiskey/Rum009Drug abuse habit: a. Habit in present0			41	36.3							
8       Current habit of consumption of different types of alcohol       0         a. Beer       0       0         b. Wine       0       0         c. Rakshi/Jand       1       0.9         d. Tongba       0       0         e. Whiskey/Rum       0       0         9       Drug abuse habit:       1         a. Habit in present       0       0											
a. Beer00b. Wine00c. Rakshi/Jand10.9d. Tongba00e. Whiskey/Rum009Drug abuse habit: a. Habit in present00	8										
b. Wine00c. Rakshi/Jand10.9d. Tongba00e. Whiskey/Rum009Drug abuse habit: a. Habit in present0			0	0							
c.Rakshi/Jand10.9d.Tongba00e.Whiskey/Rum009Drug abuse habit: a.Habit in present0			0	1							
d. Tongba00e. Whiskey/Rum009Drug abuse habit: a. Habit in present00			-	-							
e. Whiskey/Rum 0 0 9 Drug abuse habit: a. Habit in present 0 0			-	-							
9 Drug abuse habit: a. Habit in present 0 0			-	-							
a. Habit in present 0 0	9		•								
	-		0	0							
b. Habit in past 32 28.3			-	-							

Table 4. Association between Selected Demographic Variables and lifestyle Patterns (n = 113)																	
	s		Lifestyle Pattern														
	Characteristics	Categories	Exercise			Feeling Pressure		Sleep			Tobacco Consumption			Alcohol Consumption			
De	Age		Others	Daily	P-value	Occasionally / never	Often	P-value	Others	6-8 hrs	P-value	No	yes	P-value	No	yes	P-value
mogr		>41	21 71	0	8	~	1	48	- L	14	67		24	88			
raphic C		<41	3	16	0.983	24	81	0.128	23	41	<0.001	10	22	0.102	0	1	0.602
hara	sex	Female	36	56		3	5	0.931	16	33	0.231	30	51	0.510	43	69	0.208
Demographic Characteristics		Male	6	13	0.471	41	64		28	36		14	18		1	0	
	Residence	Urban	72	2	2	6	2	34	39	10	33	61	20	20	83	29	55
		Rural	12	7	0.072	78	27	0.964	45	19	0.263	23	9	0.707	1	0	0.555
	Marital Status	UM/ D/W	11	3	<0.001	0	8	0.092	13	36	0.706	21	60	0.653	28	84	0.569
		Married	17	2	, Ö	28	77	, jõ	15	49	0	7	25	0.0	0	1	0.
	Religion	B/C/M/K	21	73	5	0	8	2	13	36	4	22	59	5	28	84	
		Religion	Hindu	8	11	0.072	29	76	0.085	16	48	0.854	7	25	0.562	1	0

## DISCUSSION

It was found that most of the (31%) PLWA were of age group of 31-35 years, male (61.1%), residing in urban area (74.3%), married (75.2%) and Hindu (74.3%). Study conducted by Sharma<sup>7</sup> reported that out of 150 patients 66.7% were male, 33.3% were females. Most of them (41.3%) were illiterate, married (49.3%), and farmer (35.3%). The age group 21-30 years was predominant followed by 31-40 years (42%); which is similar to this study. Similar findings were also reported by Budhachandra and Dhungana.<sup>8,9</sup>

It was found that 83.2% PLWA never perform the exercise, whereas 8.8% perform regularly. About 57% PLWA only sleep less than 6 hours per day. About half (52.2%) of the PLWA never take food outside home whereas 34.5% take regularly.

PLWA residing in eastern Nepal receiving ART at BPKIHS had habit of taking tobacco more in past

(39.8%) in comparison of present (28.3%). Similarly only 0.9% PLWA had habit of taking alcohol at present and 63.7% in past; and 28.3% had habit of taking substances in past. Similar study conducted by Dhungana<sup>9</sup> reported, 41% PLWHA were smoker, 34% Alcoholics and 54% had weight loss, which is similar to this study.

The association calculated between selected demographic variables (age, sex, marital status, residence and religion) with lifestyle pattern (exercise, tobacco chewing, alcohol consumption, and food habit) only found significant association between marital status and exercise (p < 0.001), and Tobacco consumption and age (p < 0.001).

### CONCLUSION

The positive life style practices among the PLWA found higher at present in compression to before illness. Individual counselling and support is vital for improving the condition. **Limitations:** Due to the proxy visits by the relatives instead of the patient, the sample collection was difficult as anthropometric measurements could not be taken. There was difficulty in obtaining data about the dietary patterns and lifestyle. The setting of the clinic could not ensure proper privacy. Patients who came in a hurry couldn't be assessed in detailed related to their short stay at clinic.

**Recommendations:** The supplementation of the nutrition provided by WHO and distributed by the ART clinic can be improved and the target group can be encouraged to consume it. Similar study can be conducted at other ART centers and results can be compared. This study can be done on a larger sample and the association with diet patterns and lifestyle can be observed, which also affect the nutritional status in one way or the other. The BMI at the start of the therapy can be assessed and used to compare the improvement after the initiation of ART.

**Implications of the study:** This study gives an overview of the nutritional status of the PLWHA receiving ART at BPKIHS. For patients at the risk of being malnourished, ART initiation can be an important step in attempt to increase their nutritional status.

## REFERENCES

- UNAIDS, Global Report: UNAIDS report on Global AIDS Epidemic2010, Geneva 2010. Available from www.unaids.org/documents/ (retrieved on 2010/11/23).
- The Central Intelligence Agency World Fact book 2011, HIV/AIDS Adult prevalence rate. [online] Available from URL: https://www.cia.gov/ library/.../ the-world factbook/.../2155rank.html (retrieved on 2012/ 5/24).

- UNAIDS World AIDS Report 2011(online). Available from URL: http://www.unaids.org/en/resources/ publications/2011/(retrieved on: 2011/ November/ 23).
- Samuel, Wagle S. Population mobility and HIV/ AIDS: review of laws, policies and treaties between Bangladesh, Nepal and India.ODI background Notes. 2011 June. London. Available from URL: www.odi.org.uk/resources/docs/7108.pdf (retrieved on 2012/5/24).
- Kurian EN. Food consumption and nutritional status of people living with HIV/AIDS (PLWHA): a case of Thika and Bungoma Districts, Kenya. Public Health Nutrition.2010;4:13:475-9.
- Executive summary of Durban consultation meeting on Nutrition and HIV/AIDS, WHO 2006 Available from URL: www.who.int/.../nutrition/.../ Situation\_ Analysis for SEAR Countries (retrieved on 2012/ 5/24).
- Sharma S, Dhungana GP, Pokhrel BM, Rijal BP. Clinical Features of HIV/AIDS and various OI in related to antiretroviral status among HIV among sero-positive individuals from central Nepal. KUMJ. 2009;7:355-59.
- Budhachandra Y, Ramesh K, Sumitra G. Personality profile among HIV positive and AIDS patients of injecting durg users. KUMJ. 2007;5:38-41.
- Dhungana GP, Ghimire P, Sharma S, Rijal BP. Tuberculosis and Other clinical presentations of HIV/AIDS in patients with or without undergoing antiretroviral therapy in Kathmandu. KUMJ. 2007;5:22-26.