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# **RESEARCH PAPER**

# EXERCISE PARTICIPATION AND DIET MONITORING IN PURSUIT OF HEALTHY AGING AMONG THE UNIVERSITY STAFF MEMBERS

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## ABSTRACT

This study examined the level of exercise participation and diet monitoring in pursuit of healthy aging. Descriptive survey research design and self-structured questionnaire was used to elicit information from the respondents. Proportionate stratified and simple random sampling techniques were used to select two hundred and nineteen (219) respondents (60.7% male and 33.2% female) who formed the sample size for the study. Statistical analysis of mean, standard deviation, percent counts, frequency, chi-square and spearman rank correlation coefficient were carried out. Results showed that university staff members had significant level of exercise participation and proper diet monitoring in pursuit of healthy aging ( $X^2$ =204.05, p=.000;  $X^2$ =235.16, p=.000). Exercise participation and diet monitoring in pursuit of healthy aging had very weak positive relationship (r=0.132,p=.000). The study revealed that it is possible to focus more on exercise participation and neglect diet monitoring or vice versa. Exercise participation and diet monitoring are closely related to living a healthy lifestyle with satisfactory life-work growing productivity level and both should be given adequate attention.

**Keywords:** *Exercise participation, diet monitoring, healthy aging* 

## **INTRODUCTION**

Aging well may sound self-explanatory, but the term encompasses many aspects of health including eating right, moderate exercise, maintaining mental acuity and healthy social circles (Jaiyesimi, 2009). Eating a nutritious diet, maintaining a healthy body weight, and a physically active lifestyle are key influential factors in helping individuals avoid the physical and mental deteriorations associated with aging. High physical inactivity rates have been reported in many industrialized countries, as well as in a growing number of developing nations (World Health Organization, 2006). It is difficult to estimate trends of physical inactivity in sub-Saharan Africa due to the dearth of research proven data. In a systematic review of the prevalence of physical activity in Ghana and Nigeria, 25 to 57% of Nigerians were estimated to be physically inactive while

## 76 Gbenga and Babalola

20% and 14% approximately of the Ghanaian population were found to be overweight and obese though data from various studies were considered to be limited, poorly reported and not easily comparable (Abubakari and Bhopal, 2008). The socio-cultural climate of West African urban setting, characterized by affluence of comfort, has led to increase in sedentary lifestyle and related diseases (Abubakari *et al.* 2009; Frank *et. al.*,2012).

Physical activity levels among older adults, as well as their younger counterparts, typically fall well below the 150 minutes or more of weekly moderate-intensity physical activity (i.e., akin to brisk walking) currently recommended by a growing number of nations to achieve optimal health benefits (U.S. Department of Health and Human Services, 2008). Moderate forms of physical activity that are particularly attractive to midlife and older adults (e.g., walking) have been demonstrated to positively impact health (Hakim et al., 1998). Monteiro et al, (2003) described walking as an inexpensive form of physical activity which is common and accessible and as well forms important component of total physical activity in adult populations.

According to Jeste et al., (2010), approximately one third of older adults globally are aging successfully based on objective criteria. However, a great number of older adults perceive themselves as aging successfully despite the presence of illness and disability. Of the most common causes of death of adults aged 65 years and older in the United States, five out of eight have a known nutritional influence (Brian et al., 2008.) Almost 80% of older adults have one chronic condition, and half of all older adults have two or more (National Centre for Chronic Disease Prevention and Health Promotion, 2011). Preventing chronic diseases and reducing associated complications call for essential strategy for keeping older adults healthy, independent, and efficient. Nutrition, physical activity and exercise are the major determinants

of successful aging, even though health status has multiple contributing factors. In addition, food is not only critical to one's physiological well-being but also contributes to social, cultural, and psychological quality of life.

## MATERIALS AND METHOD

The setting for this study was the ancient city of Ibadan, Nigeria. The study examined the level of exercise participation and diet monitoring in pursuit of healthy aging among the University staff members. Descriptive survey research design was used for the study. The simple random (Fishbowl) method and proportionate stratified random sampling techniques were adopted as the sampling techniques for the study. The simple random (fishbowl) methodwas used to select the four faculties for the study. The proportionate stratified random sampling technique was used to select 20% of the respondents from each faculty. A total of 219 members of academic staff and non-academic staff participated in the survey (133 male and 86 female). A selfstructured questionnaire was used to collect information on the level of exercise participation and diet monitoring in pursuit of healthy aging among the university staff members. The instrument was validated through construct and content validity. Reliability of the instrument (r=0.82 correlation coefficient) was done through a pilot study of test re-test method on the sample of neutral population outside the study area. The instrument was administered personally by the researcher and a research assistant.

Frequency and percent counts were used to summarize the data collected. Chi-square goodness of fit  $(X^2)$  was used to test the level of association while spearman rank correlation coefficient was used to test the level of relationship. The significance level was set at 0.05.

## **RESULTS AND DISCUSSION**

The study examined exercise participation and diet monitoring in pursuit of healthy aging

Subgroup Gender         Frequency         Percentages (%)           Gender         133         60.7           Male         133         60.7           Female         86         39.3           Age         1         1           30-34         44         20.0           35-39         46         21.0           40-44         37         16.9           45-49         31         14.2           50-54         35         16.0           55 and above         26         11.9           Marital status         11.9         Marital status           Single         32         14.5           Married         178         81.3           Widowed         8         3.7           Divorced         1         0.5           Non-teaching         125         57.1           Faculty         1         24.6           Acgriculture         35         1.4.2           Science         77         35.2           Social Science         31         14.2           Agriculture         36         24.6           Academic qualification         7.3         26.6	Table-1. Demography of resp	ondents	
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Male         133         60.7           Female         86         39.3           Age	Gender		
Female       86       39.3         Age	Male	133	60.7
Age         30-34         44         20.0           35-39         46         21.0           40-44         37         16.9           45-49         31         14.2           50-54         35         16.0           55 and above         26         11.9           Marital status         31         14.2           Single         32         14.5           Marited         178         81.3           Widowed         8         3.7           Divorced         1         0.5           Nature of job         7         7           Teaching         94         42.9           Non-teaching         125         57.1           Faculty         7         35.2           Education         57         26.0           Science         77         35.2           Social Science         31         14.2           Agriculture         54         24.6           Academic qualification         7.3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9 <t< td=""><td>Female</td><td>86</td><td>39.3</td></t<>	Female	86	39.3
30-34     44     20.0       35-39     46     21.0       40-44     37     16.9       45-49     31     14.2       50-54     35     16.0       55 and above     26     11.9       Marital status     U       Single     32     14.5       Married     178     81.3       Widowed     8     3.7       Divorced     1     0.5       Nature of job     U       Teaching     94     42.9       Non-teaching     125     57.1       Faculty     U     125       Education     57     26.0       Science     31     14.2       Agriculture     54     24.6       Academic qualification     7.3     35.2       Social Science     31     14.2       Agriculture     54     24.6       Academic qualification     7.3     14.0       O'level     16     7.3       NCE     3     1.4       Diploma     21     9.6       OND     24     11.0       HND     26     11.9       Bachelor's Degree     31     14.1       PhD     76     34.7 <td>Age</td> <td></td> <td></td>	Age		
35-39       46       21.0         40-44       37       16.9         45-49       31       14.2         50-54       35       16.0         55 and above       26       11.9         Marital status       26       11.9         Marital status       32       14.5         Married       178       81.3         Widowed       8       3.7         Divorced       1       0.5         Nature of job       0.5       57.1         Teaching       94       42.9         Non-teaching       125       57.1         Education       57       26.0         Science       77       35.2         Social Science       31       14.2         Agriculture       54       24.6         Academic qualification       7.3       1.4         Diploma       21       9.6         OND       24       11.0         HND       26       11.9         Bachelor's Degree       22       10         Master's Degree       31       14.1         PhD       76       34.7	30-34	44	20.0
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Single         32         14.5           Married         178         81.3           Widowed         8         3.7           Divorced         1         0.5           Nature of job	Marital status		
Married         178         81.3           Widowed         8         3.7           Divorced         1         0.5           Nature of job             Teaching         94         42.9           Non-teaching         125         57.1           Faculty             Education         57         26.0           Science         77         35.2           Social Science         31         14.2           Agriculture         54         24.6           Academic qualification             O'level         16         7.3           NCE         3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Single	32	14.5
Widowed       8       3.7         Divorced       1       0.5         Nature of job	Married	178	81.3
Divorced         1         0.5           Nature of job	Widowed	8	3.7
Nature of job         42.9           Teaching         94         42.9           Non-teaching         125         57.1           Faculty         26.0         26.0           Science         77         35.2           Social Science         31         14.2           Agriculture         54         24.6           Academic qualification         7.3         NCE           O'level         16         7.3           NCE         3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Divorced	1	0.5
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Non-teaching         125         57.1           Faculty         26.0           Education         57         26.0           Science         77         35.2           Social Science         31         14.2           Agriculture         54         24.6           Academic qualification         7.3           O'level         16         7.3           NCE         3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Teaching	94	42.9
Faculty       26.0         Education       57       26.0         Science       77       35.2         Social Science       31       14.2         Agriculture       54       24.6         Academic qualification       7.3         O'level       16       7.3         NCE       3       1.4         Diploma       21       9.6         OND       24       11.0         HND       26       11.9         Bachelor's Degree       22       10         Master's Degree       31       14.1         PhD       76       34.7	Non-teaching	125	57.1
Education       57       26.0         Science       77       35.2         Social Science       31       14.2         Agriculture       54       24.6         Academic qualification       7.3         O'level       16       7.3         NCE       3       1.4         Diploma       21       9.6         OND       24       11.0         HND       26       11.9         Bachelor's Degree       22       10         Master's Degree       31       14.1         PhD       76       34.7	Faculty		
Science         77         35.2           Social Science         31         14.2           Agriculture         54         24.6           Academic qualification         7.3           O'level         16         7.3           NCE         3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Education	57	26.0
Social Science         31         14.2           Agriculture         54         24.6           Academic qualification         7.3           O'level         16         7.3           NCE         3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Science	77	35.2
Agriculture       54       24.6         Academic qualification       7.3         O'level       16       7.3         NCE       3       1.4         Diploma       21       9.6         OND       24       11.0         HND       26       11.9         Bachelor's Degree       22       10         Master's Degree       31       14.1         PhD       76       34.7	Social Science	31	14.2
Academic qualification           O'level         16         7.3           NCE         3         1.4           Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Agriculture	54	24.6
O'level     16     7.3       NCE     3     1.4       Diploma     21     9.6       OND     24     11.0       HND     26     11.9       Bachelor's Degree     22     10       Master's Degree     31     14.1       PhD     76     34.7	Academic qualification		
NCE       3       1.4         Diploma       21       9.6         OND       24       11.0         HND       26       11.9         Bachelor's Degree       22       10         Master's Degree       31       14.1         PhD       76       34.7	O'level	16	7.3
Diploma         21         9.6           OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	NCE	3	1.4
OND         24         11.0           HND         26         11.9           Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	Diploma	21	9.6
HND       26       11.9         Bachelor's Degree       22       10         Master's Degree       31       14.1         PhD       76       34.7	OND	24	11.0
Bachelor's Degree         22         10           Master's Degree         31         14.1           PhD         76         34.7	HND	26	11.9
Master's Degree         31         14.1           PhD         76         34.7	Bachelor's Degree	22	10
PhD 76 34.7	Master's Degree	31	14.1
	PhD	76	34.7

**Table-1: Demography of respondents** 

among the university staff members. Table 1 showed that 133 male (60.7%) and 86 female (39.3%) were involved in the study, which indicated that more male participated in the study than their female counterparts. The nonteaching staff of the university voluntarily participated more in the study than the teaching staff. The majority of the respondents for the study were highly educated with 34.2% having obtained PhD, 14.2% Masters' degree, 10.0% Bachelors' degree, 11.9% HND, 11.0% OND, 9.6% Diploma, NCE 1.4% and O'level 7.3%.

Exercise participation and diet monitoring ...

77

Table 2 showed that the chi-square analysis on exericse participation and healthy aging was significant. ( $X^2_{Cal}$ =204.05,  $X^2_{obs}$ =32.67, df =21, P>0.05). However, the table revealed that more than 60% of the respondents sometimes or do not engage in sporting activities for recreation while more than 60% walk a moderate distance for general body fitness. More than 50% of the resondents sometimes or do not do stretching

Tabl	e 2: Chi-square analysis on exercise particip	ational	nd healt	hy agin	50						
	Items		0A	0	s	NAA	Total	X <sup>2</sup> Cal	X <sup>2</sup> Obs	df	Remark
-	I engage in sporting activities for recreation	z	30	42	110	35	219	204.05	32.67	21	sig
		%	13.8	19.4	50.7	16.1	100				
તં	I walk a moderate distance for general body	Z	79	67	55	18	219				
	fitness	%	36.2	30.7	25.2	7.8	100				
С	I do stretching and flexibility exercise	Z	36	49	94	40	219				
		%	16.6	22.4	42.9	17.4	100				
4.	I participate in domestic chores to exercise my	Z	80	65	50	24	219				
	body	%	36.7	29.8	22.9	10.6					
ю.	I participate in exercise with fitness instructor	Z	12	21	55	131	219				
	a a	%	5.6	9.8	25.6	59.1	100				
6.	I engage in light weight lifting to build muscle	Z	11	13	31	164	219				
	strength	%	5.1	6.0	14.3	74.7	100				
7.	I avoid road transportation to stroll to work for	Z	22	22	98	LL	219				
	general body fitness	%	10.1	10.1	45.2	34.6	100				
×.	I go to fitness centre for exercise participation	Z	11	10	37	161	219				
		%	5.1	4.6	17.1	73.1	100				
Very C	Often (VO), Often (O), Sometimes (S), Not at All (NAA)										

Table 3: (	Chi-square analysis on diet monitoring a	nd health	ıy aging						
	Items	DV	0	s		TOTAL	$\mathbf{X}^2$ Cal	X <sup>2</sup> Obs	
9.	I eat fruits and vegetables	N 12 % 55	0 61 28	35 16.1	3 0.9	219 100	235.16	32.67	1
10.	My fluid intake has low sugar	N % 7 7 9 7 4 7 9		59 27.2	25 10.6	219 100			
11.	I eat natural and fresh food in preference to	N 93	85	32	6	219			
	refined food	% 43	.1 38.8	14.8	2.8	100			
12.	I take foods that are nutrient dense in minerals	N 59 % 27	.3 40.7	57 36.4	15 5.6	219 100			
13.	I prefer chicken and fish to red meat	N 89	73	38	19	219			
	-	% 41	.2 33.8	17.6	7.4	100			
14.	I take low fat dairy products	N 60 %	о 307 9	74 34 4	20 7 4	219 100			
15.	I take foods that are nutrients dense in	N 72	88	41	18	219			
	vitamins	% 33	5 40.9	19.1	6.5	100			
16.	I avoid fried and fatty foods	N 52	44	93	27	219			
	,	% 24	.1 20.4	43.1	12.5	100			
Very Often (	(VO), Often (O), Sometimes (S), Not at All (NAA)								1
Table 4: 5	Spearman rank correlation coefficient or	ı exercise	participa	tion and d	iet monito	ring			
		Exe	rcise parti	cipation					
Diet mor	nitoring	.132	(**)						
** Correlati	ion is significant at the 0.01 level (2-tailed).								

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#### 80 Gbenga and Babalola

and flexibility exercise while more than 60% participate in domestic chores to exercise the body. More than 80% of the respondents sometimes or do not participate in exercise with fitness instructor or engage in light weightlifting to build muscle strength. More than 70% sometimes or do not avoid road transportation to stroll to work for general body fitness and sometimes or do not go to fitness centre for exercise participation. This study disagreed with Oveyemi et al. (2013) in their recent study which reported that 68.6% of Nigerian adults living in a metropolitan city in Northern Nigeria were sufficiently active. Their conclusion of physical activity prevalence may be due to different socio-demographic characteristics and lifestyle among the groups studied, as well as differences in the definition of physical inactivity and the tools used to measure physical activity.

Modern life has in a way, negatively influenced physical activity behaviour in this present day which has led to high increase in sedentary lifestyle (Okeneye, 2002). Almost 80% of the respondents are from HND to PhD category of educational status, with assumed level of awareness and participation in healthy physical activity and exercise. According to Wilson (2002), academic qualification is a major determinant for motivation in physical activity but the result of this study contradict this submission. Working condition and other related factors may be responsible for this differences.

According to Haastrup and Adeogun (2005), regular physical activity has been found to promote the prevention and maintenance of weight gain and weight loss, when combined with diet, better cardio respiratory and muscular fitness, fall prevention, and better cognitive function in older adults. A systematic review showed that adults' leisure-time physical activity, including sports participation, has increased in five highincome countries in the past 20–30 years (Knuth and Hallal, 2009). Amongst the health benefits of exercise participation, Karmisholt

and Gotzesche (2005) noted that participation in physical activity and exercise prolongs life and prevents disease if continues throughout life. Table 3 on chi-square analysis of the level of diet monitoring and healthy aging revealed that more than 80% of the respondents for the study eat fruits and vegetables very often or often while more than 50% consume fluids with low sugar. More than 80% of the population eat natural and fresh food very often in preference to refined food. More than 60% of the respondents often take food that are nutrient densed in minerals and more than 70% prefer chicken and fish to red meat. More than 60% of the respondents take low fat dairy products and more than 70% take food that are nutrient dense in vitamin. Only less than 50% of the respondent avoid fried and fatty foods. The Chi-square goodness of fit calculated was significant ( $X^2_{cal}$ =235.16,  $X^2_{obs}$ = 32.67, df =21, P>0.05). This result reveals high level of diet monitoring among respondents for the study which is in contrast to the exercise participation.

This was further confirmed by the very weak correlation coefficient (r=.132) positive between exercise participation and diet monitoring. This result showed an alarming concern on the attitude to exercise and diet. Stefanick et al. (1998) found that a cholesterol lowering diet alone failed to lower LDL cholesterol levels in subjects with high-risk lipoprotein levels who did not engage in aerobic exercise. For many debilitating conditions, both an inadequate diet and lack of physical activity may be risk factors (Jaiyesimi, 2009). The promotion of low to moderate exercise and dietary changes have been known to be beneficial in both general conditions and specific diseases in the elderly. Roberts and Marvin (2011) reported in their study that most adults are aware of the importance of healthy eating and the need for diet monitoring.

### CONCLUSION

Exercise participation and diet monitoring are closely related to living a healthy lifestyle with

satisfactory life-work growing productivity level. The study revealed that exercise participation should be considered alongside diet monitoring in pursuit of healthy aging and lifestyle. In spite of the work engagement, working condition and adopted lifestyle of university staff members, negligent towards healthy living with exercise and diet should not be tolerated.

## RECOMMENDATION

It is therefore recommended that the host community (higher institution of learning) of this age categories should intensify efforts on campaign and policy to encourage healthy lifestyle through active living and proper diet consumption. Facilities for sports and fitness should be provided and walk to office campaign should be promoted in the community. Jaiyesimi (2015) recommended that with a well-coordinated and supervised workplace physical activity programme, workers can be physically active while in their workplaces, and after work.

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