Physical Activity Motives of Pediatrics – An Epidemiological Study

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Abstract

Keywords: Physical Activity, Surveillance, Epidemiology, Quotient, Health Education

Background: Pediatrics physical activity is one of the essential elements in archiving sustainable healthiness of the cognitive quotient, psychomotor quotient, social quotient and affective quotient, thereby maintaining ease of daily activities of children without undue tiredness. This study aimed at scoring measured and evaluated physical activity motives of pediatrics: an epidemiological study in Sierra Leone, with a behavioural attitude in maintaining a healthy altitude in overcoming sedentary behaviours that have the magnitude to trigger non-communicable diseases (NCDs) amongst children, adolescents, youths, adults and the aged.

Methods: Motives for Physical Activity Questionnaire Revised (*MPAQ-R*)was the adopted research instrument. The variables wereanalyzed using *IBM-SPSSv.23* Statistics, with a mean and standard deviation ageof 13.0 ± 3.0 , response rate of 100% and with sampled participants of N=204, ranged from 10-18 years, using simple random sampling (SRS) method of selection.

Results: According to the results, the Appearance Motive for pediatric physical activity stood predominant with sum of squares (31.941) and F-value ($F_{5,198;0.05} = 10.081$) by school. And also predominant with sum of squares (15.373) and F-value ($F_{1,202;0.05} = 21.862$) by sex. Also, Enjoyment Motive stood predominant with sum of squares (1.281) and F-value ($F_{1,202;0.05} = 1.698$) by age range for physical activity motives of pediatrics.

Conclusion and Recommendation: Conclusively therefore, appearance, competence and enjoyment motives stood out predominant amongst other motives when surveillanced by schools, sex and age range, thereby supporting both intrinsic and extrinsic motives for physical activity motives of pediatrics. In recommendation, that physical activity for pediatrics be more successful with emphasis placed on allowing the children to freely choose their motives for engaging in physical activities. In addition, emphasize public health education in schools for children to understand about preventing cardiovascular related sicknesses under non-communicable diseases (NCDs) and maintaining functional movement balance (FMB) and quotient efficiency (QE).

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I. Introduction

Pediatrics physical activity is one of the essential elements in archiving sustainable healthiness of the cognitive quotient, psychomotor quotient, social quotient and affective quotient, thereby maintaining ease of daily activities of children without undue tiredness. In Sierra Leone, it is been evidenced that children, adolescents and youths engagement in physical activity daily (PAD) is relatively better when compared to that of adults^[31]. Moreover, behaviours such as physical inactivity, will serve as a building block for the infection of non-communicable diseases (NCDs) such as cardiovascular related diseases^[31]. Physical activity motives of pediatrics can be surveillanced through the monitoring, measurement and evaluation of Enjoyment motive, Competence motive, Appearance motive, Fitness motive and Social motive respectively. In doing that, functional movement screening (FMS) should be the watchword considering strict adherence to health & nutrition educators and exercise physiologists advice^[31]. The lack of physical activity in children will lead to dysfunctional movement but remedial measures and rehabilitation is possible by freely allowing kids to choose carefully their physical activities based on individual motives. In addition, the proceeding paragraphs will display the remedial measures and it related activities.

One of the remedial measures worth considering arehealth literacy for children and adolescents with or without preexisting related medical condition(s) such as asthma^[1], stress^[3], muscle atrophy and weakness^{[2][4]} and VO₂max^[5], which are essential elements in exercise prescription during physical activity. In addition, measures worth considering are public health education^{[6][22][25]}, health extensionservices^[7] andphysical activity epidemiology^{[8][29][30]}, for the realization of children's physical activity motives. Another remedial measures worth considering areprogrammes in physical education^[9], public health and physical education^[26], health and physical education^[27], physical education literacy^[10], individual physical and mental health^[11], ageing processes^{[18][12][20]}, health education strategy^[13], physical activity balanced decisionand self-efficacy^{[14][15][23]}. In addition, other measures worth considering are programmes in observing leisure time^[16], physical activity behavioural regulation^[19] sports injuriesprevention^[17], physical literacy^[24], physical activity motives and motivation^{[28][21]}, which will serve as a prerequisite for the sustainability of children's physical activity motives. This study aimed at scoring measuredand evaluated physical activity motives of pediatrics: an epidemiological studyin Sierra Leone,with a behavioural attitude in maintaining a healthy altitude in overcoming sedentary behaviours that have the magnitude to trigger non-communicable diseases (NCDs) amongst children.

II. Materials And Methods

Respondents

The survey researchsampled participants of two hundred and four(N=204), with a mean and standard deviationage of 13.0±3.0 with a 100% response rate and with an age range of 10-16 years, selected using a process of simple random sampling (SRS) strategy, mainly amongst Six JSS (Junior Secondary School) Pupils Bo.

Instrumentation

Motives for Physical Activity Questionnaire Revised (**MPAQ-R**) was the adopted research instrument used in the research, with evidence of validity and reliability supported by test retest reliability of Cronbach's Alpha Reliability of (**0.760**), which was previously used by Bebeley et al.^{[7][21]}

Procedure

The measuring and scoring of the survey research for participants took place individually in the school compound using the procedural instructions provided for by the survey research instrument, using the census survey pro and entry (**CSPro &Entry**) systemssoftware application installed ontablets, smart phones and computers accordingly.

Analysis

An inferential Statistics of Non-Parametric Testsusing the tool of Analysis of Variance (ANOVA) and DescriptiveStatistical Tests from IBM-SPSSv.23 Statistics were utilised to compute the data, analyzeand compare the survey research findings at significant valueP<0.05.

III. Results

The Analysis of Variance (ANOVA) statistics of Physical Activity Motives (PAM) by all schools: Appearance Motive stood predominant with sum of squares (31.941) and F-value($F_{5,198;0.05} = 10.081$) and Social Motive stood less dominant with sum of squares (0.201) and F-value ($F_{5,198;0.05} = 1.192$). In addition, Bo Schoolscored highest for Competence and Enjoyment Motives with a meanvalue (7.35) each and Milton Comprehensivescored lowest for Competence and Enjoyment Motives with a meanvalue (7.03) eachas in tables 1&2.

Table 1: Physical Activity Motives (PAM) of Pediatrics by School (N=204)									
Motives for Physical Activity		Analysis of Variance (ANOVA) Statistics							
Epidemiology	Sum of Squares	df	Mean Square	F	Sig.				
Enjoyment	2.706	5	.541	.710	.616				
Competence	2.294	5	.459	.656	.657				
Appearance	31.941	5	6.388	10.081	<.001				
Fitness	.510	5	.102	1.063	.382				
Social	.201	5	.040	1.192	.314				

	Mating for Dhaniaal Asticity		ANOV	A Descriptive St	atistics	
	Mouves for Physical Activity Enidemiology		Maar	Standard	95%-CI-I	Mean
	Epidemology	n	Mean	Deviation	Lower	Upper
Enjoyment	QRS-Bo	34	7.06	.239	6.98	7.14
	Methodist Girls-Bo	34	7.24	.781	6.96	7.51
	СКС-Во	34	7.06	.239	6.98	7.14
	Bo School-Bo	34	7.35	1.889	6.69	8.01
	Milton Comprehensive-Bo	34	7.03	.171	6.97	7.09
	UCC-Bo	34	7.15	.500	6.97	7.32
Competence	QRS-Bo	34	7.29	.719	7.04	7.54
1	Methodist Girls-Bo	34	7.29	.629	7.07	7.51
	CKC-Bo	34	7.18	.521	6.99	7.36
	Bo School-Bo	34	7.35	1.555	6.81	7.90
	Milton Comprehensive-Bo	34	7.03	.171	6.97	7.09

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	UCC-Bo	34	7.26	.751	7.00	7.53
Appearance	ORS-Bo	34	6.15	.500	5.97	6.32
11	Methodist Girls-Bo	34	7.09	1.190	6.67	7.50
	CKC-Bo	34	6.12	.409	5.97	6.26
	Bo School-Bo	34	6.24	.781	5.96	6.51
	Milton Comprehensive-Bo	34	6.06	.239	5.98	6.14
	UCC-Bo	34	6.82	1.141	6.43	7.22
Fitness	QRS-Bo	34	5.00	<.001	5.00	5.00
	Methodist Girls-Bo	34	5.03	.171	4.97	5.09
	CKC-Bo	34	5.12	.478	4.95	5.28
	Bo School-Bo	34	5.00	<.001	5.00	5.00
	Milton Comprehensive-Bo	34	5.12	.537	4.93	5.31
	UCC-Bo	34	5.03	.171	4.97	5.09
Social	QRS-Bo	34	5.00	<.001	5.00	5.00
	Methodist Girls-Bo	34	5.09	.379	4.96	5.22
	CKC-Bo	34	5.00	<.001	5.00	5.00
	Bo School-Bo	34	5.03	.171	4.97	5.09
	Milton Comprehensive-Bo	34	5.00	<.001	5.00	5.00
	UCC-Bo	34	5.03	.171	4.97	5.09

Note: CI = Confidence Interval

The Analysis of Variance (ANOVA)statistics of Physical Activity Motives (PAM) by all sex: Appearance Motive stood predominant with sum of squares (15.373) and F-value ($F_{1,202;0.05} = 21.862$) and Competence Motive stood less dominant with sum of squares (<0.001) and F-value ($F_{1,202;0.05} = <0.001$). In addition, Males and Females scored equal highest for Competence Motive with a meanvalue (7.24) each as in tables 3&4.

Table 3: Physical Activity Epidemiology Motives of Pediatrics by Sex (N=204)							
Mativas for Dhysical Activity Enidemialogy		Analysis o	f Variance (ANOVA)) Statistics			
Mouves for Physical Activity Epidemiology	Sum of Squares	df	Mean Square	F	Sig.	-	
Enjoyment	.176	1	.176	.232	.630		
Competence	<.001	1	<.001	<.001	1.000		
Appearance	15.373	1	15.373	21.862	<.001		
Fitness	.078	1	.078	.815	.368		
Social	.005	1	.005	.144	.705		

Table 4: Physical Activity Epidemiology Motives of Pediatrics by Sex (N=204)							
or Physical Activity		ANOV	A Descriptive Statistics				
nidemiology	n	Moon	Standard Deviation	95%-C	l-Mean		
pideimology	п	Weah	Standard Deviation	Lower	Upper		
Male	102	7.18	1.129	6.95	7.40		
Female	102	7.12	.493	7.02	7.21		
Male	102	7.24	1.007	7.04	7.43		
Female	102	7.24	.616	7.11	7.36		
Male	102	6.14	.527	6.03	6.24		
Female	102	6.69	1.062	6.48	6.89		
Male	102	5.07	.404	4.99	5.15		
Female	102	5.03	.170	5.00	5.06		
Male	102	5.02	.139	4.99	5.05		
Female	102	5.03	.221	4.99	5.07		
	Table 4: Physical A or Physical Activity pidemiology Male Female Male Female	Table 4: Physical Activity Epidemiologor Physical ActivitynpidemiologynMale102Female102Male102Female102Male102Female102Male102Female102Male102Male102Female102Male102Female102Female102Female102Female102Female102	Table 4: Physical Activity Epidemiology Motives of PeriodANOVor Physical ActivitypidemiologynMeanMale1027.18Female1027.24Male1027.24Female1026.14Female1026.69Male1025.07Female1025.03Male1025.03Male1025.02Female1025.03Male1025.03	Table 4: Physical Activity Epidemiology Motives of Pediatrics by Sex (N=204)ANOVA Descriptive Statisticsor Physical ActivitynMeanStandard DeviationpidemiologynMeanStandard DeviationMale1027.181.129Female1027.24.493Male1027.24.616Male1026.14.527Female1026.691.062Male1025.03.170Male1025.03.170Male1025.03.139Female1025.03.221	$\begin{tabular}{ c c c c c } \hline Table 4: Physical Activity Epidemiology Motives of Pediatrics by Sex (N=204) \\ \hline ANOVA Descriptive Statistics \\ \hline ANOVA Descriptive Statistics \\ \hline pidemiology & n & Mean & Standard Deviation & \frac{95\%-Cl}{Lower} \\ \hline Male & 102 & 7.18 & 1.129 & 6.95 \\ \hline Female & 102 & 7.12 & .493 & 7.02 \\ \hline Male & 102 & 7.24 & 1.007 & 7.04 \\ \hline Female & 102 & 7.24 & .616 & 7.11 \\ \hline Male & 102 & 6.14 & .527 & 6.03 \\ \hline Female & 102 & 6.69 & 1.062 & 6.48 \\ \hline Male & 102 & 5.07 & .404 & 4.99 \\ \hline Female & 102 & 5.03 & .170 & 5.00 \\ \hline Male & 102 & 5.02 & .139 & 4.99 \\ \hline Female & 102 & 5.03 & .221 & 4.99 \\ \hline \end{tabular}$		

Note: CI = *Confidence Interval*

The Analysis of Variance (**ANOVA**)statistics of **Physical Activity Motives (PAM**) by all age range: Enjoyment Motive stood predominant with sum of squares (1.281) and F-value ($F_{1,202;0.05} = 1.698$) and Fitness Motive stood less dominant with sum of squares (<0.001) and F-value($F_{1,202;0.05} = <0.001$). In addition, Age 15-18scored highest for Enjoyment with mean value (7.38) and Age 12-15 scored lower for Enjoyment Motive with a meanvalue (7.12) as in tables 5&6.

Table 5: Physical Activity F	nidemiology	Motives of Pediatrics	by Age Range	(N=204)
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Mating for Director Activity Fridamials	Analysis of Variance (ANOVA) Statistics							
Mouves for Physical Activity Epidemiology	Sum of Squares	df	Mean Square	F	Sig.			
Enjoyment	1.281	1	1.281	1.698	.194			
Competence	.225	1	.225	.324	.570			
Appearance	.294	1	.294	.378	.539			
Fitness	<.001	1	<.001	<.001	.983			
Social	.117	1	.117	3.499	.063			

	ANOVA Descriptive Statistics						
Motives for Physical Activity Epidemiology		-	м		95%-CI	95%-CI-Mean	
		11	Iviean	Standard Deviation	Lower	Upper	
Enjoyment	12-15	183	7.12	.850	7.00	7.24	
	15-18	21	7.38	1.024	6.92	7.85	
Competence	12-15	183	7.22	.838	7.10	7.35	
	15-18	21	7.33	.796	6.97	7.70	
Appearance	12-15	183	6.40	.858	6.27	6.52	
	15-18	21	6.52	1.078	6.03	7.01	
Fitness	12-15	183	5.05	.319	5.00	5.10	
	15-18	21	5.05	.218	4.95	5.15	
Social	12-15	183	5.02	.165	4.99	5.04	
	15-18	21	5.10	.301	4.96	5.23	

Table 6: Physical Activity Epidemiology Motives of Pediatrics by Age Range (N=204)

Note: CI = Confidence Interval

IV. Discussion

Physical activity motives of paediatrics will serve as remedial and rehabilitation measures for functional movement imbalance (FMI) in children, which is mostly due to physical inactivity in school and at home.Functional movement imbalance in children will lead to non-communicable diseases (NCDs) such as quotients deficiency (QD) in the holistic development of children. This can be evidence in the physical activity motives of paediatrics survey under discuss focusing on the schools, sex and the age range of the children.

Under schools, epidemiological surveillance result indicates that physical activity motives (PAM) of pediatrics favour more of appearance motive, competence motive and enjoyment motive when compared amongst schools, which is an indication of both intrinsic and extrinsic motives for physical activity (IE-MPA). This survey is in linewith theepidemiological surveillance screening of functional movement (ESS-FM)in children and adolescents physical activity^{[31][30]}.

Under sex, the epidemiological surveillance result indicates that physical activity motives (PAM) of pediatrics favour more of appearance motive, competence motive and enjoyment motive when compared between males and females (sex), which also supports both intrinsic and extrinsic motives for physical activity (IE-MPA). This survey is in linewith the pidemiological surveillance screening of functional movement (ESS-FM)in children and adolescents physical activity^{[31][30]}.

Under age range, the epidemiological surveillance result indicates that physical activity motives (PAM) of pediatrics favour more of enjoyment motive, appearance motive and competence motive when compared byage range, which again supports both intrinsic and extrinsic motives for physical activity (IE-MPA). This survey is in linewith theepidemiological surveillance screening of functional movement (ESS-FM)in children and adolescents physical activity^{[31][30]}.

V. Conclusion And Recommendation

Conclusively therefore, appearance motive, competence motive and enjoyment motive stood out predominant amongst other motives when surveillanced by schools, sex and age range thereby supporting both intrinsic and extrinsic motives for physical activity motives of pediatrics. Which is an indication of remedial and rehabilitation measures for functional movement imbalance (FMI) and quotients deficiency (QD) amongst children.

In recommendation, that physical activity for pediatrics be more successful with emphasis placed on allowing the children to freely (though carefully guided) choose their motives for engaging in physical activities. In addition, emphasize public health education in schools for children to understand about preventing cardiovascular related diseases under non-communicable diseases (NCDs) and maintaining functional movement balance (FMB) and quotient efficiency (QE).

References

- [1]. Bebeley, S. J. 2016c. Adolescents' Health Literacy Level of Asthma due Environmental, Physical and Medical Conditions; PARIPEX-Indian Journal of Research: 5(6), 7-9.
- Bebeley, S. J. 2016b. Adolescents' Health Literacy Level of Muscle Atrophy due Physical, Medical and Exercise Factors; PARIPEX-Indian Journal of Research 5(5), 7-9
- [3]. Bebeley, S. J. 2016d. Adolescents' Health Education Literacy Level of Stress due Cognitive, Emotional and Physical Factors; PARIPEX-Indian Journal of Research: 5(7), 19-21.
- [4]. Bebeley, S. J. 2016a. Adolescents' Knowledge about the Contraindications of Muscle Weakness due Central Fatigue, Peripheral Fatigue and Lactic Acid as Health Education Strategy in Lifestyle Management; PARIPEX-Indian Journal of Research 5(4), 2-4
- [5]. Bebeley, S. J. 2015. An Investigation into the Measurement Level of Maximum Volume of Oxygen Consumption Using Cooper 12-Minutes Run-Test; Journal of Exercise Science and Physiotherapy: 11(2), 65-75.

- [6]. Bebeley, S. J., Conteh, M. & Gendemeh, C. 2018. Physical Activity amongst College Students: Motivational Requisite for Public Health Education of Behavioural Regulation in Exercise; International Journal of Scientific Research: 7(**3**), 254-256.
- [7]. Bebeley, S. J., Conteh, M. &Laggao, S. A. 2018. Physical Activity Motive of College Students: Factorial Motivation for Health Extension Workers; Journal of Physical Education Research: 5(3), 1-7.
- [8]. Bebeley, S. J., Laggao, S. A. & Conteh, M. 2018. Understanding College Students Physical Activity Decision: Motivational Focus for Physical Activity Epidemiology; International Journal of Scientific Research: 7(10), 38-40.
- [9]. Bebeley, S. J. & Laggao, S. A. 2011. Effects of Six-Month Physical Education Programme on Motor Fitness of Primary School Pupils in Sierra Leone; Journal of Nigeria Association for Physical, Health Education, Recreation, Sport and Dance: 2(1), 100-106.
- [10]. Bebeley, S. J., Laggao, S. A. & Tucker, H. J. 2017a. Adolescents' Physical Education Literacy Level due Developmental, Humanistic and Fitness Factors; IOSR Journal of Sports and Physical Education (IOSR-JSPE): 4(2), 15-18.
- [11]. Bebeley, S. J., Laggao, S. A. & Tucker, H. J. 2017bi. Athletes Abstinence Knowledge from Eating Disorders as Health Education Method in Decreasing Unhealthy Ageing with Reference to Physical & Mental Health; Journal of Exercise Science & Physiotherapy: 13(1), 8-22.
- [12]. Bebeley, S. J., Laggao, S. A. & Tucker, H. J. 2017bii. Knowledge of University Athletes about Knowing and Monitoring of Vital Signs as Preventive Strategy in Reducing Early and Unsuccessful Ageing; Journal of Exercise Science and Physiotherapy: 13(1), 31-52.
- [13]. Bebeley, S. J., Laggao, S. A. & Tucker, H. J. 2017c. Pupils' Knowledge Level about the Contraindications of Cardiovascular Diseases of the Heart as Health Education Strategy in Preventive Health; Journal of Exercise Science & Physiotherapy: 13(2), 1-12.
- [14]. Bebeley, S. J., Liu, Y. & Wu, Y. 2017d. Decisional Balance Scale for College Students' Level of Motivation in Physical Activity; Global Journal for Research Analysis: 6(7), 453-455.
- [15]. Bebeley, S. J., Liu, Y. & Wu, Y. 2017e. Physical Exercise Self-Efficacy for College Students' Level of Motivation in Physical Activity; International Journal of Science and Research: 6(8), 81-85.
- [16]. Bebeley, S. J., Liu, Y. & Wu, Y. 2017f. Weekly Leisure Time Exercise for College Students' Level of Motivation in Physical Activity: A Concern for Physical and Public Health Education; International Journal of Scientific Research: 6(9), 651-654.
- [17]. Bebeley, S. J., Wu, Y. & Liu, Y. 2016ci. Athletes' Knowledge about Preventing Sports Injuries as Prime Prevention Strategies in Slowing Ageing Process; Journal of Exercise Science and Physiotherapy: 12(1), 25-37.
- [18]. Bebeley, S. J., Wu, Y. & Liu, Y. 2016ciii. Athletes' Knowledge about the Non-Usage of Drugs as Prime Prevention Strategies in Slowing Ageing Process; Journal of Exercise Science and Physiotherapy: 12(1), 57-68.
- [19]. Bebeley, S. J., Wu, Y. & Liu, Y. 2017c. Behavioural Regulation In Exercise For College Students' Level Of Motivation In Physical Activity; International Journal of Scientific Research: 6(6), 580-583.
- [20]. Bebeley, S. J., Wu, Y. & Liu, Y. 2016cii. Knowledge of Njala Campus Athletes about Abstinence from Diseases Associated with Unsafe Sexual Practices aimed as Primary Prevention Strategy in Minimizing the Process of Ageing; Journal of Exercise Science and Physiotherapy 12(1), 42-56.
- [21]. Bebeley, S. J., Wu, Y. & Liu, Y. 2017b. Motives for Physical Activity for College Students' Level of Motivation in Physical Activity; International Journal of Science and Research: 6(5), 2377-2382.
- [22]. Bebeley, S. J., Wu, Y. & Liu, Y. 2017g. Motivational Level of College Students' in Physical Activity: A Concern for Public Health Education; International Journal of Science and Research: 6(10), 816-821.
- [23]. Bebeley, S. J., Laggao, S. A. & Gendemeh, C. 2018. Physical Activity Epidemiology of College Students Physical Exercise self-Efficacy: Motivational Drive for Health Education Promotion; Journal of Physical Education Research: 5(4), 33-40.
- [24]. Laggao, S. A., Bebeley, S. J. & Tucker, H. J. 2017. Adolescents' Physical Literacy Level Due Locomotor-&-Body, Sending and Receiving Skills; PARIPEX-Indian Journal of Research: 6(1), 255-257.
- [25]. Tucker, H. J., Bebeley, S. J. & Laggao, S. A. 2017a. Children and Adolescents' Fitness Skill Level in Physical Activity: A Motivational Concern for Public Health Education; International Journal of Science and Research: 6(11), 18-22.
- [26]. Tucker, H. J., Bebeley, S. J. & Conteh, M. 2017b. Motor Skill Level of Children and Adolescents Motivation in Physical Activity: A Major Concern for Public Health and Physical Education; International Journal of Science and Research: 6(12), 482-486.
- [27]. Tucker, H. J., Bebeley, S. J. & Conteh, M. 2018. Physical Activity and Motor Fitness Skill Level of Children and Adolescents: A Motivational Factor for Health and Physical Education; International Journal of Science and Research: 7(1), 895-899.
- [28]. Bebeley, S. J., Wu, Y. & Liu, Y. 2018. Motivation of Physical Activity amongst College Students in Sierra Leone; A Published Doctoral Thesis in the School of Physical Education and Sports Training; Shanghai University of Sport (SUS).
- [29] Bebeley, S. J., Tucker, H. J. & Conteh, M. 2019. Physical Activity Motivation: Epidemiological Surveillance of College Students in Sierra Leone; Journal of Physical Education Research: 6(2), 01-40.
- [30]. Bebeley, S. J., Tucker, H. J. & Conteh, M. 2019. Epidemiological Surveillance of College Students Physical Activity Motivation; IOSR Journal of Sports and Physical Education (IOSR-JSPE): 6(6), 13-18.
- [31]. Bebeley, S. J., Conteh, M. & Laggao, S.2020. Epidemiological SurveillanceScreening of FunctionalMovement in Children and Adolescents Physical Activity; IOSR Journal of Sports and Physical Education (IOSR-JSPE): 7(2), 62-66.

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Conflict of Interests:

The authors declared no conflict of interests regarding the publication of this manuscript.

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