Evaluation of School Health Services in Public Primary Schools in Bonny Local Government Area, Rivers State

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Abstract

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Background: Effective school health services will not only address ill health among school children but will also reduce absenteeism and dropout rates, thereby encouraging completion of schooling.

Objective: To evaluate the school health services available in public primary schools in Bonny Local Government Area. Rivers State.

Design: A cross sectional school-based study carried out in March 2006.

Methods: All the 20 public primary schools in Bonny Local Government Area were inspected and assessed for the availability of the various components of school health services using an evaluation scale. Data were analyzed using proportions and percentages.

Results: No school had health personnel or first aid facilities. Nineteen (95 percent) schools isolated pupils by sending them home with suspected communicable diseases. No school gave free school meals and school farms were found in only eight (40 percent) schools. The only health appraisal carried out by all the schools was routine morning inspection. The scores attained by the schools ranged from 6-9 points. No school attained the minimum acceptable score of 15 points using the evaluation scale.

Conclusion: School health services were lacking in Bonny public primary schools. There is need for the establishment of effective school health services there.

Introduction

THE School Health Programme denotes all aspects of the school programme that contribute to the understanding maintenance and improvement of the health of the school population consisting of school children and school personnel. It is both a promotive and a preventive health service. Its purpose is to provide a healthy environment that is conducive to maximum benefit from the educational process. School Health Programme consists of four components namely, school health services, school health instruction, healthful school environment and school, home and community relationship. These components are interdependent and mutually interactive. School health services are concerned with the prevention of communicable diseases in

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Correspondence: Alex-Hart BA E-mail: balanlexhart@ymail.com the schools, treatment of minor adments, returnly of cases to appropriate agencies for further investigations and management and maintenance of an effective sickbay. It also includes health appraisals/medical examination of pupils and personnel and provision of school meals in primary schools.

Primary school age differs from country to country but in Nigeria, it is within the age range, 6-12 years. The school aged children constitute 23 percent of Nigeria's population. The survival and future prespectly of the nation depend on them. Whereas they are survivers of major childhood killer diseases, they are still proce to unfavorable conditions that put them at risk of poor growth and development. It is therefore imperative to improve their quality of life in order for them to attain their full potential.

School aged children represent a segment of the society whose health problems have received minimal attention in Nigeria. This may be due to the greater emphasis which has been placed on the protoction of pre-school children whose mortality rates are as high as 260 per thousand live births in some parts of the country. Kaine' observed that special clinics

were established for the welfare of pre-school children, but regretted that the same could not be said of the health of children of school age; the reasoning being that once a child has reached school age, he or she becomes immune to diseases and death. Agreeably, school age children do not suffer the very high mortality rate of the pre-school children. burthere is evidence from hospitals, outpation clinics and other institutions that there is a high morhidity rate among them. "" Disabilities in school age children have also been documented in various studies. 78 The findings in these studies expose the lack of school health services and emphasize the need for screening facilities in our schools to detect disabilities among our children so as to institute appropriate treatment and/or corrective incasures that will reduce absenteeism due to ill health which contributes to reduced school performance. Unfortunately studies have shown that screening familities are lacking in the schools and health records are not kept."411

Millennium Development Goal 2 calls for the achievement of universal primary education by the year 2015. The rarger is that by 2015, all children will be able to complete a full course of primary education. This goal will be manainable if the issue of ill health in primary school children is not tacked, because illness has been recognized as the leading cause of absenteersm and dropout from primary schools. Effective school health services that will address ill health at school and allow children return to classes will reduce absenteersm and dropout rate and encourage completion of schooling.

School health services was introduced in Rivers State in 1975 with the establishment of a school health unit in Diobu Health Centre. 11 It was run by public health norses with occasional input from the physicians. The activity centred on health talks and occasional school inspection in Port Harcourt Local Government Area, the capital of Rivers State, only, These were however infrequent due to lack of transport facilities.11 In 1989, a student of Stella Maries College, Port-Harcourt wrote a letter to the then Commissioner for Elealth pointing out the need and called for a clear proposal on school health services in the State. This then prompted the write up "Proposal for improvement of School Health Services in the State" by the Rivers State Ministry of Health in 1990. 4 Six years later, a school health services evaluation exercise carried out in 28 public primary schools in Obio Akpor Local Government Area of Rivers State in 1996 by Alezni' came to the following conclusions: 'School health services did not exist in the schools studied, the schools lacked facilities for the management of emergencies, a good reconlikesping system and health professionals were not found in any school. However, there is no documentation of the status of school health services in primary schools in Bonny Local Government Arca, and this necessitated the present study whose aim was to evaluate the status of school health services in public primary schools in Bonny Local Government Arca of Rivers State.

The specific objectives were to assess the availability of school health services in public primary schools in Bonny Local Government Area of Rivers State, and determine the level of functionality of the various components of school health services, using an evaluation scale.

Materials and Methods

This is a cross sectional school-based study carried out in Bonny Local Government Area (LGA) of Rivers State in March 2006. The LCA is one of the 23 Local Government Areas of Rivers State. Its boundaries are Okrika LGA in the North, Degeme. LGA in the East, Andoni LGA in the West and the Atlantic Ocean in the South. The Local Government Area which is named after its headquarters, Bonny. is made up of Bonny City and 19 satellite villages. There are also several fishing scotlements attached to these villages. It has a population of 215, 358.2 Bonny LGA has 20 public primary schools made up of seven schools in Bonny city, 10 in the villages and three in the fishing settlements. There is one functional comprehensive health centre in Bonny City, a general hospital, five private clinics, pharmacy shops and private laboratories. There are however no functional health facilities in the villages and fishing sendements.

All the 20 public primary schools were inspected by one of the authors. A validated school health services evaluation scale!" adapted from "School Health Practic" by Anderson and Croswell¹⁷ was used to assess the availability of the various components of the school health services namely, the presence of health personnel, health approisal, treatment facilities within the schools, care of emergency illness in school, control of communicable diseases, school nutrition programme, follow up services and availability of health records of the pupils. Items were scored according to their importance or relevance. For instance, the scores for availability of health personnel in the school were graded from C-4 points. Four points were awarded for the presence of a medical doctor in the school, while a point was awarded for the absence of health personnel 18 A Sine to face' interview method was used to obtain additional relevant information. The minimum acceptable and maximum attainable scores for school health services using the evaluation scale were 15 and 46, respectively. Data were analyzed, using proportions and percentages.

Results

Twenty schools, all of which were established between 15 and 139 years ago, were inspected. The pupil population of the schools ranged from 100 to 1460 with a mean of 352±336 SD. The schools in the villages and fishing settlements had pupil population less than 300 as shown in Table I. The teacher population per school ranged from 2-13 with a mean of 5±2.77SD. The teacher-pupil ratio per school ranged from 1:30 to 1:128. Five (71 percent) schools in Bonny city and eight (80 percent) schools in the villages had teacher-pupil ratio below the 1:40 recommended by the implementation committee of the National Policy on Education¹¹ as shown in Table II.

Health personnel: No school had health personnel during the evaluation and none had a person trained in First Aid.

Health appraisal: The only health appraisal done by the teachers in the 20 schools was routine morning inspection which involved inspection of the pupils' hair, teeth, finger nails, skin and uniforms.

Treatment facilities: No First Aid facility or ambulance services were found in any school.

Care of emergencies: Eighteen (80 percent) schools did not administer First Aid to ill or injured pupils, two (10 percent) schools which administered First Aid treatment to pupils used drugs and materials bought from the chemist. Records of treatment given were not kept. However, seven (35 percent) schools transported injured pupils to health facilities for treatment as shown in Table III.

Table I

Population of Schools in Bonny LGA

	1.0		
	Location of		
Bonary City No (%)	· Villages No (%)	Fishing Settlements No (%)	Total No (%)
2 (10)	10 (50)	3 (15)	15 (75)
0 (0)	0 (0)	0 (0)	0 (0)
5 (25)	0 (0)	0 (0)	5 (25)
7 (35)	10 (50)	3 (15)	20 (100)
	No (%) 2 (10) 0 (0) 5 (25)	Bormy City Villages No (%) No (%) 2 (10) 10 (50) 0 (0) 0 (0) 5 (25) 0 (0)	No (%) No (%) No (%) 2 (10) 10 (50) 3 (15) 0 (0) 0 (0) 0 (0) 5 (25) 0 (0) 0 (0)

Table II

Teacher-Pupil Ratios in Primary Schools in Bonny LGA

	Location of Schools				
Teacher-Pupil Ratio	Borery City No (%)	Villages No (%)	Fishing Settlements No (%)	Total No (%)	
≱:40	2 (10)	2 (10)	2 (10)	6 (30)	
1:41-1:80	1 (5)	6 (30)	1 (5)	8 (40)	
>180	4 (20)	2 (10)	0(0)	6 (30)	
Total (%)	7 (35)	10(50)	3 (15)	20 (100)	

Table III

Treatment Facilities and Care of Emergencies in the Schools

School Health Services		Number of Sc	Number of Schools (%)	
Treatment Facilities				
First Aid Box with essential o	drugs and m	aterials	. 0 (0)	
Care of Emergencia	*			
Give first Aid			2 (10)
Treatment given recorded			a (a)	100
Notification of parents	200	W 14 - 1	6 (30	n)
Transport to nearest health p)06C		7 (35)
Convey child home after trea	tment	基本	7 (35)

Table IV

Communicable Disease Control, Follow-up and Nutrition Programme in 20 Schools

School Health Services		Number of sobooks (%)		
Communicable Disease C	iontrd			
Isolation of cases			19 (95)	
Followup Servies		77		
Home visir	- 15		16 (80)	
Guidance and cou	uselling		p (o)	- X
School Nutration Program	2722			
School farm		P 1 VI 6	8 (40)	
School meals	ia Tributa	11 12 94	0 (0)	

Table V

School Health Services Scenes

Solicials	Location	Stores
Central School	Bormy City	9
Boyle Memorial	Bormy City	9
Bonny Government School	Bormy City	8
St Michael School	Bonny City	8
Model Primary School	Bonny City	8
CPS Emirra	Bonay City	8
CPS Abalamabie	Borery City	8
CPS Kalaibiama	Village	8
CPS Barrigo	Village	7
CPS Dema Abbey	Village	7
CPS Oloma	Village	7
CPS Agbalama	Village	7
CPS Greens Iwoma	Village	7
CPS Peterside	Village	4.6
St Baths School	Village	6
CPS Dan Jumbo	Village	6
CPS Kuruma	Village	6
CPS Agaja	Fishing Settlement	7
CPS River Seven	Fishing Settlement	6
CPS Iwokiri	Fishing Settlement.	5
	the second secon	

CPS=Community Primary School

Communicable diseases control: Majority (95 percent) of the schools reported isolating suspicious cases of communicable diseases by sending the ill pupils home (Table IV).

Follow-up services: None of the schools had guidance and counselling sessions. Sixteen (80 percent) schools had home visits of ill or injured

School nutrition programmie: No school served free school mea's, while eight (40 percent) schools had school farms as shown in Table IV.

School health services scores

The scores of the schools ranged from 5 to 9 (mean 7.15±0.9SD). The schools in Bonny City had better evaluation scores than the schools in the villages and fishing settlements. All the schools scored below the minimum acceptable score of 15 points as shown in Table V.

Discussion

The poor implementation status of the school health services in Bonny LGA of Rivers State revealed in this study is comparable to what was found a decade ago in Obio Alspor LGA in the state. "This shows a gross neglect of the programme in the state. The fact that none of the schools inspected had up to the minimum acceptable score of 15 points for school health services has scrious health implications."

for pupils in communities in Bonny LGA with limited functional health facilities.

The finding of teacher-pupil ratio below the 1:40 recommended by the National Education Research Councill® in 70 percent of the schools studied, is comparable to what was reported in a previous study by Akani in Obio-Akpor, Rivers State® This low teacher-pupil ratio will increase the workload of the teacher and will not allow for the teachers' continuous observation of every child. Apart from this, it is likely to result in overcrowding which encourages the spread of communicable diseases.

The lack of health personnel in all the schools studied may be due to a lack of intersectorial collaboration. between the Ministries of Health and Education in Rivers State. The absence of health personnel seriously undermines the implementation of the school health services in these schools. This is because they are supposed to be involved in carrying our health appraisals, treating minor ailments and referring serious ailments to health facilities where they could be handled. In their absence, these duties fall on the shoulders of the teachers who do not have sufficient training to handle them. This lack of medical personnel in primary schools in Nigeria has been reported previously by Akani in Rivers State, Oduman' in Oyo State, Ojugo" and Luogic" in Bendel State.

A situation in which no First Aid facilities was found in any of the 20 schools contrasts with what obtained in other parts of Nigeria where First Aid facilities were found in 61 percent, 66 percent and 39.3 percent of schools in Bendel State, 19 Ibarapain. Oyo State,25 and Obio-Akpor in Rivers State,10 respectively. The absence of persons trained in First Aid in the schools inspected is consistent with findings in previous studies, 6.20,21 but contrasts with the finding of such trained personnel in 62.2 percent of the urban primary schools in Ibadan.* This is probably because the Ibadan study was carried our in the early seventies when school health received priority attention by the government of the then Western Nigeria. The fact that these other studies were carried out more recently shows a gradual deterioration in our school health services. The situation where First Aid is administered by persons with no formal training is dangerous as it could result in serious complications.

Early detection and isolation of children with communicable diseases like measles, chicken pox and numps are essential for the protection of pupils at schools. In this study majority (95 percent) of the schools practised isolation of suspicious cases by sending the pupils home. This coutrasts with the 24 percent and 25 percent reported by Akani³ and Odhor, ² respectively. While the action of the teachers in this studywas intended to prevent the spread of communicable diseases in school, it puts the people at home at risk. Thus it can result in the spread of the diseases within the communities. It is therefore preferable for schools to have sick bays where communicable disease cases could be isolated and treated.

Lack of free school meals in the schools studied is similar to that reported by Alsani, "Imoge" and Ojofcitimi, "In this is in sharp contrast to Oduntan's finding of organized and compulsory school meals in the schools studied. This contrast may be due to the fact that Oduntan's study was carried out in the then Western Region with well organized primary school system and good nutrition programme. Lack of school meals undermines the objective of the school nutrition programme which is to improve and maintain the nutritional status and the general health of the school children.

A well integrated School Health Programme is expected to provide meaningful health appraisal and counselling for all pupils. An effective counselling can only take place when observations and problems identified are recorded. Thus, the absence of health appraisals (except routine morning inspection) and health records of pupils in the schools studied under mines any effective counselling sessions. It is therefore not surprising that no school practised

guidance and counselling sessions. Previous workers have also reported lack of guidance and counselling sessions, health records and health appraisals in the schools they studied in various parts of Nigeria. **

In conclusion, school health services were lacking in public primary schools in Bonny Local Government Area of Rivers State. There was absence of health professionals, facilities for the management of emergency illness, health records of pupils and free school meals in all the primary schools studied in the Local Government Area. It is therefore recommended that effective school health services he established in all the public primary schools in the LGA to cater for the health needs of pupils in these schools. It is also recommended that the Rivers State Ministry of Health should include primary schools as centres to which community health workers could be posted. In the absence of health professionals, selected primary school teachers could be trained on first aid administration for handling emergencies in schools. Free school meals should be introduced in all public primary schools in the LGA. Intersectorial collaboration between the ministries of education and health should be encouraged for effective implementation of the programme.

References

- Maysherk C, Foster R. Health Education in Secondary Schools: Integrating the 'critical approach technique', St Louis: The CV Moshy Company (Publ), 1972: 1-65.
- Rivers State Government, Universal Basic Education Law, No 4, Rivers State Government, 2005.
- Akani NA, Nkanginieme KEO, Ornamaho RS. The School Health Programme: asituational revisit. Nat J. Pandistr. 2001; 28: 1-6.
- Oduntan SO, Pattern of disease and accidents in Nigerian children of school age. J TropMed Hyg 1973; 77: 28-35.
- Kaine WN. Medical examination and common minor ailments amongst school children. Paper presented at a workshop on Health for Teachers. Enugy, 1987.
- Orusmabo RS. Analysis of paediatric medical cases admitted to the University of Port Harcourt Teaching Hospital (UPTH) Nigeria. East Afr. Med J 1987; 64:520-6.
- Asindi AA. Pattern of neurological disabilities in children attending University of Calabar Teaching Hospital. Nig J Positatr 1986;13:127-23.
- Okeahialam TC, Childhood tuherrulosis in Enugu. Nig f Parilistr 1980;7: 20 5.

- Nwama OC. Teacher participation in health appraisal. West Afr J Ed. 1982;25:139-52.
- Akani NA. The effect of a short term training of healtearhers on the implementation of school health programme in primary schools in Obio-Akper Local Government Area. A dissertation submitted to the National Postgraduate Medical College of Nigeria, 1997.
- Ojogo AI. Status of health appraisal services for primary school children in Edo State, Nigeria. Int Electronic J Hilb Ed 2005; 8:146-52.
- Wagstaff A, CLaeson M. The MDGs for health: Rising to the challenges. Washington DC. The World Bank, 2004:25-175.
- Fajawayami BA. Absenteeisni due to ill-health among students in primary and secondary schools in Ile-Ite, Nigeria. Nig Schi I Ith J 1986; 6: 96-109.
- Rivers State Ministry of Health. "Proposal for improvement of school health services in the state". Rivers State Ministry of Health, 1990.
- Ferbral Republic of Nigeria Official Gazette. Legal notice on publication of the details of the breakdown of the frational and state provisional totals 2006 census. Lagos, The Federal Government Printer (Publ) 2006.

- Aksni NA, Okey C. Components, administration, records, evaluation and advantages. In: Aksni NA, Nisanginieme KEO, eds. Introduction to the School Health Programme. Port Harcoure Sunray Books Ltd (Publ), 1996: 1-6.
- Anderson CL, Creswell WH. School Health Practice.
 The CV Mosby Company (Publ.) 1980; 1-185.
- Federal Republic of Nigeria, National Policy on Education, Revised edition, Abuja, Nigeria, NERDC Press (Publ), 1996.
- Imogic AO. An evaluation of the primary health care programme in secondary schools in Oredo Local Government Area, Bendel State, Nig Sold Hbb J 1988;7: 99-101.
- 20 Ezeonwannel T, Kanu NE. Assessment of First Aid facilities in primary schools in Ibarapa Local Government Area. PSM project 90. College of Medicine, University of Ibadan, F7811, 1980.
- Ochor JOS. Analysis of the Primary Health Care activities in Bendel State. Nig Schl Hldb. J 1988; 7:55:60.
- Ojoteitimi EO. The growing demand for an effective school banch programme: a tool for nutrition education. Official report of the First International All African Conference on health education. Lagos, 1981:205-8.