SCHOOL FEEDING PROGRAMME AND ACADEMIC PERFORMANCE OF
PRIMARY SCHOOL PUPILS IN KYUSO DIVISION,
KYUSO DISTRICT, KENYA.

BY

MOSES M. NZYIMA
BED/19748/72/DF

A RESEARCH REPORT SUBMITTED TO THE INSTITUTE OF OPEN
AND DISTANCE LEARNING IN PARTIAL FULFILMENT OF THE
REQUIREMENTS FOR THE AWARD OF A DEGREE OF
BACHELOR OF EDUCATION IN EARLY CHILDHOOD
EDUCATION AND PRIMARY EDUCATION
OF KAMPALA INTERNATIONAL
UNIVERSITY

APRIL 2010
DECLARATION:

I, Moses M. Nzyima, declare that this research project is my original work and has never been submitted to any academic award. Where the works of others have been cited, acknowledgment has been made.

Signature

Moses M. Nzyima

Date 10/01/2010
APPROVAL

I certify that the work submitted by this candidate was under my supervision. His work is ready for submission, to be evaluated for the award of a Bachelor of Education in Early Childhood Education and Primary Education of Kampala International University.

Signature........................................

Ssekajugo Derrick

Date..............................
DEDICATION

I humbly dedicate this research work to all those people who have been instrumental in this research study
ACKNOWLEDGEMENT

I would like to thank my supervisor Mr. Ssekajugo Derrick for his support and guidance when writing this research project.
TABLE OF CONTENTS

DECLARATION: ............................................................................................................... I
APPROVAL ....................................................................................................................... II
DEDICATION .................................................................................................................. III
ACKNOWLEDGEMENT ................................................................................................. IV
TABLE OF CONTENTS ................................................................................................... V
ABSTRACT ...................................................................................................................... VII

CHAPTER ONE .................................................................................................................. 1
INTRODUCTION ............................................................................................................... 1
1.1 Background of the study .......................................................................................... 1
1.2 Statement of the Problem ........................................................................................ 1
1.3 Objective of the Study ............................................................................................. 2
1.3.1 General Objective ............................................................................................... 2
1.3.2 Specific Objective .............................................................................................. 2
1.4 Research questions ................................................................................................. 2
1.5 Significance of the study ......................................................................................... 3
1.5 Scope of the study .................................................................................................. 3
1.6 Limitations of the study ......................................................................................... 3
ABSTRACT

This study was intended to determine the effect of free feeding programme on the academic performance of pupils in Kyuso, zone, Kyuso division, Kyuso District, Kenya.

The study adopted a descriptive research design which enhanced the researcher to obtain a better understanding of the problem of socio-economic factors on academic performance of pupils. Questionnaires and interview guides were used in the collection of data after which it had to be coded and presented in percentages and frequency distribution tables.

The findings revealed that poor nutrition led to diseases and therefore because of diseases children do not perform well in school. The study also found out that nutrition was very important and that for a country to develop it had to focus on nutritional programs.

It was recommended that the parents and the community should be sensitized on the importance proper and stable family background and how they influence child development.
CHAPTER ONE

INTRODUCTION

1.1 Background of the study

Investments in human capital, particularly in education, are more conducive to economic growth than investments in physical capital. Both society at large and individuals benefit from basic education.

A study by the International Food Policy Research Institute concluded in February 2000 that women's education and their resulting higher status "have contributed to more than half of the 1970-95 reduction in the prevalence of malnutrition in developing countries".

In developing countries the returns on investments in education are higher than in more advanced countries; the greatest returns are for primary schools. Even the developed world has taken advantage of school feeding. Many countries have had or continue to run nationwide or targeted school feeding projects. Japan and the US are among these examples as well as numerous European countries.

1.2 Statement of the Problem

When children no longer need to worry about food, they can concentrate on their lessons. With enough food to learn and thrive, they are more likely to stay in school longer. When food is available at school, attendance rates increase significantly. Parents are more inclined to send their children because they know their children will get at least one solid meal during the day, and it will add savings to the family budget.
In emergencies or protracted relief operations, school feeding (even in "makeshift" schools) is extremely important in several ways. Firstly, the feeding is a critical source of nutrition for children.

Secondly, the school provides a healthier emotional environment for children whose normal lives have been disrupted; and allows schooling to continue during a period when precious school time would otherwise be lost, handicapping the child in the future. It’s on this premise that the researcher sought to establish whether free feeding has any impact on academic performance of pupils.

1.3 Objective of the Study

1.3.1 General Objective

The general objective of this research was to identify the effect of free feeding programme on the performance of pupils in Kyuso division, within Kyuso District, Kenya.

1.3.2 Specific Objective

Through the production and dissemination of this research, the aim was to:

1) To investigate the impact of feeding programs on pupils academic performance.
2) To investigate the challenges faced by children who cannot access food.
3) To determine the possible solutions that are available to help in feeding programme.

1.3 Research questions

1) What is the impact of feeding programmes on pupil’s academic performance?
2) Which challenges are encountered school children who cannot access food?
3) Are there any possible solutions to the challenges?
1.5 Significance of the study

The researcher was able to get first hand information on the effects of poverty on early childhood education.

The schools in Kyuso district benefited from the research as it helped the administration to know how best to handle pupils from different backgrounds.

The research will be of great help to other students in the Institute of Open and Distance learning who might wish to enhance the same later.

1.5 Scope of the study

The research was carried out between April and August 2009. The research was conducted in Kyuso district, Kenya. The respondents to the research were pupils as well as the teachers and parents of El-Wak primary school.

1.6 Limitations of the study

In conducting this study, a number of challenges were encountered, including:

Attitudes Towards the Exercise – Some respondents were unwilling to freely share the information. This maybe mainly true at the local level because of fear of not knowing whether the information could go to their superiors with repercussions. Nevertheless, the researcher tried and overcame these limitations to collect sufficient and representative data to reach the conclusions herein.
CHAPTER TWO
LITERATURE REVIEW

2.1 Introduction

This section reviews the literature on the impacts of school feeding programs on school enrollment, attendance, and dropout rates; dietary intake; nutritional status; and academic performance of participating children.

2.2 The impact of feeding programme on performance

A study conducted in Malawi by WFP showed that a small, pilot, school feeding program over a three-month period led to a 5 percent increase in enrollment and up to 36 percent improvement in attendance (WFP 1996). An evaluation of a school meal program in Jamaica found that after the first semester, the treatment class showed improved school attendance compared to the control classes (Powell, and Grantham-McGregor 1983). Another evaluation of a school feeding program in Burkina Faso found that school canteens were associated with increased school enrollment, regular attendance, consistently lower repeater rates, lower dropout rates, and higher success rates on national exams, especially among girls (Moore, and Kunze 1994). However, in a study conducted in Kenya, the investigators did not find a difference in the attendance rates between schools with and without the school feeding program (Meme et al. 1998).

School feeding programs have also proven effective in reducing the education gap between girls and boys. For example, program evaluation results from Pakistan, Morocco, Niger and Cameroon show that while food is the initial motivation for sending girls to school, parents of
participating girls develop an interest in the education of their daughters. This change in attitudes is an important factor in enhancing parents’ commitment to education beyond the duration of food assistance (WFP 2002a).

School feeding programs are likely to improve the nutrient intake of participating children. A study in Huaraz, Peru shows that for children who received breakfast at schools, dietary intake of energy increased by 2 percent, protein by 28 percent, and iron by 4 percent compared to the control group (Jacoby et al. 1996). An evaluation of a school feeding program in Jamaica assessed the dietary impact of school breakfast consisting of a bun and half pint of milk.

Results show that the program provided 32 percent and 45 percent of daily energy and protein requirements, respectively (Chambers 1991). In Brazil, a study of a large school lunch program examined the impact of the program on consumption of calories and protein by school children in Sao Paulo. Participation in the program was associated with an increased availability of 357 calories and 8.5 grams of protein (Dall’Acqua 1991).

A very few studies meticulously measured whether food intake from a school feeding program is additional to the child’s normal food intake at home, or the food is substituted away from the child at home. Jacoby (2002) explores the existence of an “intra-household flypaper effect” by which in-school intake of calories from SF snacks and meals “stick” to the child.

Based on an experimental design and rigorous econometric analysis, the study assessed the impact of an SF program on child calorie intake in the Philippines. The empirical results confirm the existence of an intra-household flypaper effect, where virtually all calories from
Iron and iodine are critical for cognitive development. Iron deficiencies may render children inattentive and uninterested in learning. Iron supplementation was shown to improve IQ scores of previously iron deficient children (Seshadri and Gopaldas 1989). Evidence also shows that children who suffer from iodine deficiencies are more likely to perform poorly than those without (del Rosso 1999). To counter the harmful effects of micronutrient malnutrition, some school feeding programs provide fortified food. The provision of such food was shown to increase the dietary intake of micronutrients. For example, in Peru, researchers studied the effect of a breakfast program that included iron-fortified rations. The program significantly increased dietary intakes of iron by 46 percent, besides increasing energy and protein by 25 percent and 28 percent, respectively (Jacoby et al. 1996).

Evidence on the impact of school feeding programs on child nutritional status is limited, due partly to the cost and complexity of obtaining accurate and reliable anthropometric and food intake data, and partly to methodological difficulties in isolating the effect of food intake from other factors affecting nutritional status.

Several studies show that food alone does not guarantee improved nutritional status. For example, a study in Ethiopia found that differences in food availability and access had limited effect on the differences observed in child nutritional status (Pelletier et al. 1995). This could be because a child's nutritional status is a function of not only the quality and quantity of the dietary intake but also a function of morbidity, child caring and feeding practices, and household variables such as income and parental education. Further, in developing countries, poor health status of children is exacerbated by poor and inadequate health facilities and
services, immunization, safe water and sanitation, and health education programs. Some reviews even show that food-based interventions alone have little measurable impact on nutritional status, morbidity or mortality levels except in crisis situations (Clay, and Stokke 2000).

Nevertheless, there is evidence from school feeding program evaluations that some programs do improve children's nutritional status. For example, a randomized, controlled trial of giving breakfast to undernourished versus adequately nourished children studied in Jamaica showed positive results: compared to the control group, both height and weight improved significantly in the breakfast group (Powell et al. 1998).

In most developing countries, academic achievement is disappointing, especially at the primary education level. There are numerous causes for this problem, which can be addressed in several ways through both supply-side and demand-side interventions. Health and nutrition inputs have often been included in the strategies because poor health and nutrition are known to affect children's ability to learn. Children who have poor levels of academic attainment often have poor nutritional status (Pollit 1990; Simeon, and Grantham-McGregor 1989). It is then likely that giving children a daily breakfast or a meal at school may improve their scholastic achievement through several mechanisms: increasing the time spent in school, improving certain cognitive functions and attention to tasks and, perhaps indirectly, improving nutritional status (Grantham-McGregor, Chang, and Walker 1998). However, it is hard to infer a causal relationship since other confounding factors are also likely to affect learning. For example, poor social backgrounds and low socio-economic household characteristics are often linked to both poor diet and poor school performance (Chandler et al. 1995).
Evaluations to determine the impact of school feeding programs on academic achievement are sparse and most of them lack scientific rigor. Only a few investigators have examined the effects of school meals on school achievement levels, using quasi-experimental designs with matched treatment and control groups. Even such evaluations did not show consistent results. The inconsistencies may be because of the limited degree of control over experimental conditions, the differences in the analytical approaches and the initial characteristics of the children (Simeon, and Grantham-McGregor 1989).

One of the first papers that reviewed the impact of feeding children in school on education outcomes appeared in 1978 (Pollit et al. 1978). The authors looked at the U.S. school feeding programs and noted that most of the earlier studies had lacked well-defined hypotheses, were ambiguous in the definition of variables and lacked valid and reliable data. The authors concluded that provision of breakfast seemed to benefit students emotionally and enhance their performance on school-type tasks but no conclusion could be drawn upon the long-term effects. Pollit (1995) reviewed several studies conducted in Chile, United Kingdom and the United States from 1978 to 1995. The author concluded that brain function is sensitive to short-term variations in the availability of nutrient supplies. Such indication is particularly strong for undernourished children. For these children, omitting breakfast alters brain function, particularly in the speed and accuracy of information retrieval in working memory. This evidence has strong implications for the developing world where a large percentage of school children are nutritionally at-risk.

Three rigorous studies conducted in Jamaica that investigated the impact of school feeding programs on cognitive functions and learning outcomes provide evidence of the Beneficial impact of FFE on cognitive outcomes.
First, a study in 1983 examined 115 children aged 12 to 13 years who were enrolled in three classes in a poor rural area school. One class was served school breakfast with the other two classes serving as controls. The impact evaluation included: school achievement, attendance, and weight gain. School achievement was measured using tests that included arithmetic, spelling and reading. Children were followed over two semesters. After the first semester, the treatment group showed improved school attendance and arithmetic scores compared to the control classes, but no difference in weight gain. After controlling for school attendance, academic improvement remained significant showing some evidence that reducing hunger during school hours could affect learning of arithmetic (Powell and Grantham-McGregor 1983).

The second study examined the effect of breakfast on cognitive functions among 90 children aged 9-10 years with different nutritional status. The study examined the effects of omitting breakfast on the cognitive functions of three groups of children: stunted, non-stunted control, and previously severely malnourished. Using a crossover design, the investigators tested each child on two mornings one week apart (where the first week the child had received breakfast and the second had not). In order to have greater control over the experiment, children’s meals on the previous evening were standardized and children subsequently fasted until they received the treatment breakfast or the placebo. Fluency and digit span tests were conducted and results showed that there was a detrimental effect of missing breakfast. Results also indicated that cognitive functions were more vulnerable in poorly nourished children (Simeon, and Grantham-McGregor 1989).

The third study conducted in Jamaica investigated the short-term effects of giving breakfast on cognitive performance in primary school children who were mildly undernourished as
compared with adequately nourished children. The experiment took place in four primary schools in rural Jamaica. Children were randomly assigned to a group provided with breakfast or a quarter of an orange as a placebo. Researchers then administered four cognitive tests (visual search, digit span, verbal fluency and speed-of-information-processing tests). After a few weeks the treatments were reversed and the tests repeated. Undernourished children's performance improved significantly on a test of verbal fluency when they received breakfast. Adequately nourished children did not experience any significant improvement (Chandler et al. 1995).

These and the findings of Simeon and Grantham-McGregor (1989) indicate that targeting of school meals to undernourished children should achieve greater impact in terms of improving children's cognitive ability.

However, results from a study in Chile did not find omission of school breakfast to be detrimental to cognitive performance (Lopez et al. 1993). This research examined 279 children from low socioeconomic backgrounds and categorized as normal, wasted or stunted. No consistent association was found between school breakfast and performance in short-term visual memory, problem solving, or attention tasks in any of the three nutritional groups. Results suggested that, given a motivating short-term task and maintaining routine conditions, missing breakfast does not affect the cognitive performance of children. However, the researchers had no control over the food intake the night before the experiment as children stayed at home.

Besides studies based on experimental design, some studies have examined school feeding programs directly to determine the impact on academic performance. In 22 out of 30
provinces in Burkina Faso, the success rate on a national exam for sixth grade pupils was higher for schools that had school feeding programs (Moore and Kunze 1994). Other studies of the determinants of academic achievement in Benin, Burkina Faso and Togo found that a school meal was positively related to children’s performance on year-end tests. In Benin, children in schools with canteens scored 5 points higher on second-grade tests than did children in schools without canteens (WFP 2001).
CHAPTER THREE

METHODOLOGY

3.0 Introduction

This section entails the methods used to collect the data necessary to answer the research. It is divided into;

3.1 Research design

The study adopted a descriptive research design. This enhanced the researcher to obtain a better understanding of the problem of socio-economic factors on academic performance of pupils. The method chosen allowed a collection of comprehensive intensive data and provide an in-depth study on why past initiatives have not produced the desired results.

3.2 Population of study

The population of study were teachers, pupils of Kyuso primary schools within Kyuso division, Kyuso district, Kenya.

3.3 Study sample

With regard to above the study’s stratified sampling was employed.

Sampling as follows: 50 pupils and 10 Teachers.

3.4 Research instruments

Questionnaire

Primary data was collected by use of questionnaire and interviews, filled by relevant parties to obtain ideas on what constitutes teaching methodology.

These were designed in both open and closed ended form.

The method ensured a high proportion of responses and higher returns rate.
Interview method

This took face-to-face interactions with the teachers in the school.

Secondary data was obtained from the Ministry of Education magazines, annual report records and other researches done. This gave other information required in the research.

3.5 Research procedure

The researcher had an introductory letter from the University and presented it to the area authority to obtain permission for study. This gave directives to the local administrators at grass root level for acceptance. After acceptance by the authorities the major task of collecting data began immediately.

3.6 Data analysis and interpretation

The information collected was analyzed and edited to create consistency and completeness. After collecting the questionnaires they were edited for completeness and consistency across the respondents to locate omissions. Information obtained from the research study was presented and analyzed using bar charts, narratives, and statistical figures.
CHAPTER FOUR
DATA PRESENTATION, ANALYSIS AND INTERPRETATION

4.0 Introduction

The chapter is a presentation; interpretation and discussion of the findings.

4.1 Profile of the respondents

Table 1: Shows the profile of the respondents.

<table>
<thead>
<tr>
<th>Respondents</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>11</td>
<td>55</td>
</tr>
<tr>
<td>Female</td>
<td>9</td>
<td>45</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marital status</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>8</td>
<td>40</td>
</tr>
<tr>
<td>Married</td>
<td>12</td>
<td>60</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>19-24 yrs</td>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>25-30 yrs</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>31 and above</td>
<td>6</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Educational level</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>Diploma</td>
<td>9</td>
<td>45</td>
</tr>
<tr>
<td>Degree</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)
Twenty five (25) questionnaires were distributed to the teachers and 20 were filled and returned. This therefore represents 80% of the total number of questionnaires that were distributed.

The study covered 20 randomly selected teachers of whom 11 (55%) were male and 9 (45%) were female. Of the 20 respondents, 8 (40%) were single while 12 (60%) were married. The age category of the respondents was divided in three groups that is 19-24 years were 4 which was 20%, 25-30 were 10 (50%) and 31 and above were 6 representing (30%) of the respondents. The academic level of the respondents was divided in three categories that is certificate, diploma and degree. 6 (30%) of the respondents had certificates, 9 (45%) had diplomas and 5 (25%) had degrees.

Interviews were carried out with 10 parents both male and female. Six 6 of the parents were male while four 4 were female.

Focus group discussions were used to extract data from the pupils. 25 pupils were included in the discussion of which 14 were boys and 11 girls.

4.2. Is there a relationship between school feeding and performance of pupils?

The respondents were asked whether environmental factors affect academic performance.

Table 2: Whether free feeding programme has an effect on enrollment

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>13</td>
<td>65</td>
</tr>
<tr>
<td>No</td>
<td>7</td>
<td>35</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)
Majority of the respondents said that free feeding programmes had impacted on attendance and increased the enrollment of pupils. Those who were sure that they will eat at school were determined to join.

35% of the respondents said that free feeding programme did not affect the enrollment of pupils in any schools.

Table 3 Response on enrolment of pupils

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>Agree</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Disagree</td>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)

10 (50%) of the respondents strongly agree that some tribes are well educated than others, 5 (25%) agree while 1 (5%) strongly disagree and 4 (20%) disagree.

4.4 Socio- economic factors and school achievement

The respondents were asked whether other socio-economic factors were impacting on performance of pupils in class and this was their response.
Table 4 whether socio-economic factors are major contributors of poor performance in schools.

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>Agree</td>
<td>8</td>
<td>40</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Disagree</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)

10 (50%) of the respondents strongly agree that poor nutrition leads to poor performance of pupils in class while 8 (40%) agree and 2 (10%) disagree. The parents agreed that socio-economic factors contributed to academic performance because children who are healthy are capable to concentrate in class which leads to performing well.

Table 5 whether hunger affects the concentration of pupils in schools

<table>
<thead>
<tr>
<th>Respondents</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>15</td>
<td>75</td>
</tr>
<tr>
<td>Agree</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Disagree</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)
15(75%) of the respondents strongly agreed that pupils do not concentrate in class because of hunger, 2 (10%) agreed while 1(5%) strongly disagreed and 2(10%) disagreed. The parents said that it was obvious one could not concentrate on an empty stomach especially children. The pupils revealed that in some cases when the teacher delays them in class and they have to go for lunch they do not concentrate in class.

The respondents were asked whether failure to have food contributes to low enrollment of pupils and this was their response.
Table 6: Responses as to whether failure to have food contributes to low enrollment of pupils.

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>8</td>
<td>40</td>
</tr>
<tr>
<td>Agree</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Disagree</td>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)

The table shows that 8 (40%) of the respondents strongly agree that failure to have food contributes to low enrollment of pupils, 6 (30%) agree while 2 (10%) strongly disagree and 4 (20%) disagree.

Table 7: Responses as to whether schools with feeding program perform better

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>11</td>
<td>55</td>
</tr>
<tr>
<td>Agree</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Disagree</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: field data (2010)
The table shows that 11 (55%) of the respondents strongly agreed that schools which had feeding programmes performed better than those that did not have, 6 (30%) agreed and 3 (15%) disagree.

The parents agreed that feeding programmes hindered academic achievement in a way that if pupils cannot concentrate in class then the performance will not be good which leads to repletion and hence poor performance. This means that the goal of government is not realized that is achieving education for all.

Figure showing response on possible solutions to the challenges

<table>
<thead>
<tr>
<th>Possible Solutions</th>
<th>Government Aid</th>
<th>Donor Funding</th>
<th>Stakeholders</th>
<th>Community Help</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>4</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: field data (2010)

Majority of the respondents said that the government should help in trying to solve the challenges posed by food insecurity, donor funding was also cited by the respondents as another probable solution to the challenges posed by food insecurity.

1 respondent said that stakeholders should be involved in trying to solve the problems while 2 respondents said that they should be solved with the help of the community.
CHAPTER FIVE
SUMMARY, CONCLUSION AND RECOMMENDATIONS

5.0. Introduction
The major purpose of the study was to establish the effects of feeding programmes on the academic performance of pupils in Kyuso zone, Kyuso division, Kyuso district. This chapter focuses on the summary of the findings, conclusions and recommendations. Finally the chapter ends with suggestions for further research.

5.1. Summary
The first objective was to determine the effects feeding programme on the performance of pupils. The study revealed that pupils' academic performance is affected by such factors such as food availability as well as proper nutrition. They also agreed that nutrition is very important in the growth and development of children and this is supported by Levinger Beryl (2000) that nutritional programs facilitate the growth of a child in all dimensions and have considerable long lasting effects on a child's life.

The second objective focused what are the possible solutions that can be put in place to mitigate the effects of effects of food insecurity to pupils academic performance and education. The most possible solutions that were given include financial support of the poor families; government subsidies should also be included to help the donors who are possibly the highest contributors to free feeding programmes.

According to Grantham McGregor (1991) school attendance and achievement are affected by a host of variables including the capacity of a child as a biosocial organism to process and respond to stimuli. The study also revealed that children from poor families did not perform
well in class because of hunger and therefore did not perform well and this is supported by FAO (2000) hunger hinders school achievement.

The third objective focused on the relationship between social economic factors such as family background and the health of pupils and how they affect performance 30% of the respondents agreed that they had children who were sick due to malnutrition.

5.2. Conclusion

It was established that feeding programmes does play a part in academic performance of pupils. Thus families that could not provide basic necessities their children did not get the required education. Nutrition was very important to the growth and development of a child and that poor nutrition led to diseases hence poor school attendance leading to poor performance. Poor nutrition leads to poor performance in class and children who are hungry cannot concentrate in class. The study also revealed that poor nutrition affected the enrollment of pupils.

5.3. Recommendations

The government should make sure that it focuses on nutritional and feeding programs in schools.

The parents and the community should be sensitized on the importance proper and stable family background and how they influence child development.

Parents should make sure that they provide food for their children as they go to school so that they do not go hungry and fail to concentrate in class.
5.4 Suggestions for further research

More research should be done on the effects of poverty on academic performance of pupils and how they can be alleviated.
REFERENCES


Dear respondent,

I am, a student from Kampala International University, Institute of Continuing and Distance Learning collecting data in relation to the effects of school feeding programme on academic performance of pupils in your area. The information you will provide will be treated with a high degree of confidentiality.

**TICK WHERE APPROPRIATE**

**General instructions**

a) This questionnaire is to be filled by teachers

b) Please assist and answer the appended questions after reading carefully

c) Please tick in the space of choice provided

d) Write comments in the provided space where necessary

e) Do not write your name on the questionnaire

f) The information collected will be confidentially kept and will only be used for academic purpose

**Personal details**

A) Sex:

□ Male

□ Female
### B) Age

<table>
<thead>
<tr>
<th>Age bracket</th>
<th>Tick where appropriate</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-16 years</td>
<td></td>
</tr>
<tr>
<td>18-25 years</td>
<td></td>
</tr>
<tr>
<td>25 years and above</td>
<td></td>
</tr>
</tbody>
</table>

### C) Education class level

Please indicate your educational level

<table>
<thead>
<tr>
<th>Educational class level</th>
<th>Tick where appropriate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form one</td>
<td></td>
</tr>
<tr>
<td>Form two</td>
<td></td>
</tr>
<tr>
<td>Form three</td>
<td></td>
</tr>
<tr>
<td>Form four</td>
<td></td>
</tr>
</tbody>
</table>

### PART TWO: Impact of feeding programme on pupils performance.

**TICK WHERE APPROPRIATE**

i) Does lack of food affect pupils performance? If yes give reasons.

........................................................................................................................................
........................................................................................................................................
........................................................................................................................................

ii) Is the ministry of education doing enough to address the issue?
iii) What other factors are impacting on pupils' performance?

iv) What challenges do pupils encounter in their quest for education at your school?

v) Are there any possible solutions to the challenges posed by food insecurity?

Thank you