

BUSIA COUNTY

HEALTH COMMODITY QUANTIFICATION REPORT FOR FY2015/2016

July 2015

With Support from:







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About MSH/HCSM

The MSH/HCSM Program strives to build capacity within Kenya to effectively manage all aspects of health commodity management systems, pharmaceutical and laboratory services. MSH/HCSM focuses on improving governance in the pharmaceutical and laboratory sector, strengthening pharmaceutical management systems and financing mechanisms, containing antimicrobial resistance, and enhancing access to and appropriate use of medicines and related supplies.

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ACRONYMS

AMC Average Monthly Consumption
CDH County Director of Health

CHMT County Health Management Team

CRH County Referral Hospital
F & Q Forecasting and Quantification

FBO Faith Based Organization

FCDRR Facility Consumption Data Report and Request

FY Financial Year

HIV Human Immunodeficiency Virus
KEMSA Kenya Medical Supplies Agencies
MEDS Missions for Essential Drugs & Supplies
MIS Management Information System

MoC Months of Stock

MSH/HCSM Management Sciences for Health/Health Commodities and Services

PHP Priority Health Programs

PMTCT Prevention of mother to child transmission

RP Review period

SCH Sub county hospital SOH Stock on hand

TWG Technical Working Group

USAID United States Agency for International Development

ACKNOWLEDGEMENTS

The County Department of Health, Busia County, wishes to acknowledge and thank County Health Management Team [CHMT], County Director for Health, the County Chief Officer of Health, the County Executive Committee Member of Health, the Sub County Health Management Team and the facility staff for their commitment and their dedication in this process. The quantification team comprised technical officers from the various public sector facilities - county health management team, staff from hospitals in both public and private facilities. The team's effort towards the forecasting and quantification of health commodities for the Busia County achieved a major milestone in planning for and improving access to quality health services in the County. The quantification workshop was supported; both technically and logistically, by the USAID/Kenya funded Management Sciences for Health/Health Commodities and Services Management [MSH/HCSM] project, Nairobi, Kenya.

EXECUTIVE SUMMARY

The Busia County Quantification for FY 2015/FY 2016 was conducted between April and May 2015. The process entailed the briefing of the sub-county and county health management teams on the quantification process and preparation for the data collection process. A total of 33 participants drawn from the 7 sub-counties, the Busia County Referral Hospital, Tanaka Nursing Home and Holy Family Mission Hospital (HFMH) Nangina attended the meeting. The teams proceeded with the data collection process from 5 facilities from each sub-county; while the Busia County Referral, Tanaka and HFMH Nangina health facilities teams collected data from their respective facilities. The quantification workshop where 44 participants were in attendance was held from May 13 to 15th 2015. During this workshop the data review and validation as well as sub-county aggregation of the cost estimates was done. This was followed by a two day data validation and county aggregation meeting where the final forecast for the total health commodity requirements for the financial year FY 2015 to FY 2016 were generated.

The quantification workshop combined training and the actual county quantification process and through this process the total value of health commodity requirements for FY 2013/2014 was estimated at **Kshs. 417,882,214** inclusive of a 3 month buffer. A breakdown of requirement across for the seven commodity categories by sub-county is given in Table 6.

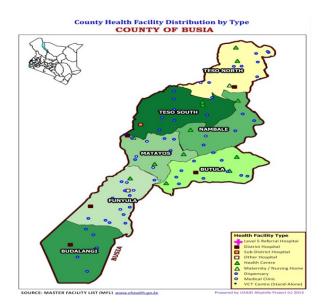
This process has further strengthened the capacity of the CHMT, the sub county teams and facility staff to be able to successfully conduct health commodities quantification and subsequently provide the financial requirements for health commodity needs in the county.

Background and Introduction

Busia County is one of the four Counties that form Western Region. It is among the 47 Counties of Kenya. It borders the Republic of Uganda to the West and North, Bungoma County to the North East, Kakamega County to the East and Siaya County to the South.

The County is divided into seven Sub-Counties namely: Bunyala, Busia, Butula, Nambale, Samia, Teso North and Teso South.

The County has a total of 92 health facilities majority of which are sponsored by the Government of Kenya. Private and faith based facilities represent 15% and 13% of the total health facilities in the county.



The distribution of the health facilities by sub-county is presented in the table below.

County Health Units

Sub County		GoK		Fai	th - Ba	sed		Private	:		Total		Grand Total
	Tier 4	Tier 3	Tier 2										
Bunyala	0	ı	6	0	0	ı	0	0	0	0	ı	7	8
Butula	0	I	10	0	0	2	0	0	I	0	I	13	14
Matayos	I	0	9	0	0	0	0	0	7	I	0	16	17
Nambale	0	0	7	0	0	I	0	0	0	0	0	8	8
Samia	0	I	П	0	I	2	0	0	4	0	2	17	19
Teso North	0	I	7	0	0	4	0	0	I	0	I	12	13
Teso South	0	I	10	0	0	I	0	0	I	0	I	12	13
County	ı	5	60	0	I	П	0	0	14	I	6	85	92

Table 1: List of Busia county health facilities by service levels

Regarding disease burden, the top five diseases include malaria (39.7%), diseases of the respiratory tract (19.65%), and diseases of the skin (8.98%), typhoid fever (3.34%) and urinary tract infection (2.48%). Non communicable diseases such as hypertension are among the top ten diseases affecting the population, while the HIV prevalence stands at 6.8% (Source: Busia County Profile – 2015).

This quantification activity was one of the planned activities to be undertaken by the commodity TWG. MSH/HCSM provided the technical oversight while the CHMT under the leadership of the County Pharmacist coordinated the sub-county teams during the data collection process.

Objectives

To build capacity of the Busia commodity security TWG, the sub county commodity focal persons, FBO and private facility teams in health commodity quantification for the FYI5/FYI6.

Specifically the quantification workshop aimed to:

- 1. Sensitize the participants on the quantification process
- 2. Orientation of the sub-county and county teams on the data collection process
- 3. Guide the sub-county and county teams through the data validation and aggregation of sub-county and county data

Methodology

The county, sub-county and facility teams attended a one day briefing meeting where a brief orientation of the quantification process was done. The meeting entailed orientation of the participants on data collection process and introduction to the data collection tools. The data collection tools were reviewed and the process of the data collection and entry into the electronic tools were discussed. The sub-county teams were then provided with the data collection tools (manual and electronic). A total of 33 participants from the 7 sub-counties and 4 facilities (Busia CRH, Tanaka, Nangina and Alupe).

The sub-county and facility teams proceeded to collect data from 5 facilities in the sub-counties and the respective health facilities. The data collection was done in the sub-county hospital, a high and low volume health centers as well as high and low volume dispensaries. A total of 39 facilities were included in the quantification exercise.

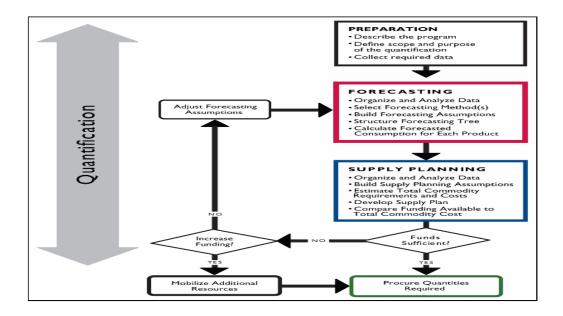


Figure 1: Quantification process

Sampling

A convenient sampling procedure was used to select the facilities to be included in the quantification process. The inclusion criteria was – all the sub-county hospitals, the county referral hospital, one high level and one low level health center and dispensary respectively. The list of the sampled health facilities are listed below:

Sampled health facilities per sub-county

Sub county	Tier 4 Hospitals	Sub County Hospital	High Level Health Center	Low Level Health Center	High Level Dispensary	Low Level Dispensary
Teso North		Kocholia sub- county hospital	Angurai	Moding	Malaba	Kamolo
Teso South		Alupe hospital	Amukura	Lokolis	Apokor	Ngelechom
Butula		Khunyangu sub- county hospital	Bumala B	Ikonzo modelButula mission	Bumutiru	Masendebale
Samia		 Sio Port Sub-county hospital HFMH Nangina 	Nambuku Model	Namboboto	Nangina	Namuduru
Matayos	Busia CRH	Tanaka Nursing Home	Matayos	Nasewa	Busibwabo	Bukalama,Munongo
Nambale		Nambale	Lupida	Madende	Malanga	Lwanyange
Bunyala		Port Victoria	Mukhobola	Lukala	Budalangi	Sisenye
Total		8	7	8	7	8

Table 2: List of sampled health facilities where data was collected

Data collection

The data collection was done in one facility per day, a total of 5 days per sub-county. The participants were trained on the data collection process and how to enter the information on the relevant fields in the hard copy. This information was then entered into the electronic tools in preparation for the data aggregation process. The data collection teams comprised a pharmacist, a nurse and a lab staff. The primary data source was stock cards, however, where the data was inadequate, other registers were used to collect and verify the information. The collected data was submitted to the county pharmacist for verification prior to the quantification workshop.

Quantification workshop

The quantification workshop was conducted between May 13th and 15th 2015. A total of 40 participants attended the workshop. The objectives of the workshop were to:

- 1. Sensitization on purpose and process of quantification
- 2. Review supply planning and procurement planning
- 3. Estimate required annual quantities and cost of health commodities for the county
- 4. Establish and build capacity for quantification of commodity requirements at county level

The workshop aims were:

- I. To estimate the quantities and values of health commodities required by Busia County and capture this output in a county quantification report
- 2. To initiate the establishment of a county quantification team.

Day I:

Day one entailed the review of the quantification process. The participants were introduced to the quantification process and forecasting methodologies. Assumptions and decision making for forecasting were discussed. This was followed by presentation and review of the facility commodity quantification data. This was done in the sub-county and facility teams. The sub-county data validation was then done and the sub-county teams presented their reviewed data.

Day 2:

The day began with the review of the status of the data validation process. The sub-county teams provided the data for the different commodity categories and the information was discussed in the plenary. Possible errors in the data were pointed out for the teams to revise the data. Once all the sub-county data had been validated, the participants were taken through the sub-county aggregation process.

Data Extrapolation

The aggregation process required that extrapolation of data to cater for the other facilities where data was not collected from to be done. The participants were taken through the process of extrapolation. This was done through review of the high and low volume health facilities and deriving the one that has the data that can be extrapolated.

Service statistics method of forecasting data was used to adopt a low volume and a high volume facility. Service data was generated from the DHIS to determine the workload of the facilities where data was collected so as to guide the process of determining the high and low volume facilities. Based on the median, the facilities were designated as high and low volume. In addition, Apokor in Teso south sub-county and Bumutiru in Butula sub-county were adopted as low and high volume dispensary respectively based on their service data and budget. Data was collected in all health centers hence adoption for health centers was not necessary. This involved linking the adopted facility data with the sub-county data followed by copying and pasting the data into the sub-county facilities that are similar to the adopted one.

Once the extrapolation had been done for all the facilities, then the sub county data was aggregated into the county data.

Dispensaries Low Volume

			Medical				
Facility Name	Category	Pharm	supplies	Laboratory	Nutrition	Total	Sub County
Munongo Disp	LV	2,306,802	1,622,883	0	0	3,929,685	Matayos
Nambomboto Mission	LV	797,320	1,086,271	465,451	0	2,349,042	Samia
Apokor Disp	LV	848,727	661,012	346,516	0	1,856,255	Teso South
Namuduru Disp	LV	501,784	722,729	311,250	0	1,535,763	Samia
Bukalama Disp	LV	441,591	543,235	0	0	984,826	Matayos
Masendebale Disp	LV	414,436	39,322	304,319	0	758,077	Butula
					Average	1,902,275	

Table 3: Low Level Dispensaries

Dispensaries High Volume

Facility Name	Category	Pharm	Medical supplies	Laboratory	Nutrition	Total	Sub County
Busibwabo Disp	HV	3,338,680	2,563,724	1,066,035		6,968,439	Matayos
Budalangi Disp	HV	2,007,495	1,500,216	256,563		3,764,274	Bunyala
Bumutiru Disp	HV	750,450	945,650	723,547		2,419,647	Butula
Malanga Disp	HV	816,452	545,715	623,124		1,985,291	Nambale
Malaba Disp	HV	544,769	697,190	491,137		1,733,096	Teso North
Nangina Disp	HV	611,962	762,263	314,205		1,688,430	Samia
Sisenye Disp	HV	830,536	571,402	0		1,401,938	Bunyala
Moru Karisa Disp	HV	644,541	430,978	238,848		1,314,367	Teso South
Lwanyange Disp	HV	621,081	286,995	394,938		1,303,014	Nambale
Kamolo Disp	HV	330,316	528,953	3,290		862,559	Teso North
					Average	2,344,106	

Table 4: High Volume Health Centers

County data aggregation

One county folder was created where all the sub county folders were saved. The sub county data was then aggregated using the county aggregation tool. The cost summary for the county was then generated by commodity item.

Quantification Results

This section provides the computation of the cost summaries. Using available data, the exercise was able to generate the cost summaries for each sub-county which was then aggregated into the county quantification summary. The results show the value of quantities in Kenya Shillings per the product category. This value is for commodities quantified for a period of 15 months (12 months plus 3 months buffer stock). The quantification shows requirements without adjusting for stock on hand. This adjustment should ideally be done at the time of procurement.

Cost Summary for Busia County by Product Category

Category of Commodities	Value of Quantities Required (in Kenya Shillings)
Pharmaceutical	143,886,626
Medical supplies	134,127,718
Laboratory	79,741,613
Nutrition	17,659,419
Radiology	18,318,798
Dental	12,858,524
Eye	11,289,516
Renal	0
Total	417,882,214

Table 5: Cost Summary by Product Category

Busia County Health Commodities Quantification for July 2015 to June 2016

Category of	Bunyala	Butula	Matayos	Nambale	Samia	Teso North	Teso South	BCRH	County
Commodities									
			Value of	<mark>Quantities Req</mark> u	<mark>iired including</mark> l	<mark>Buffer (in Kenya</mark>	Shillings)		
Pharmaceuticals	15,410,204	17,573,545	17,819,404	16,430,922	11,610,664	18,292,035	19,923,793	26,826,054	143,886,621
Medical supplies	10,872,980	19,192,508	15,648,985	9,865,101	12,763,728	20,003,595	24,080,424	21,700,396	134,127,718
Laboratory	5,488,683	10,484,761	8,566,072	6,940,274	6,090,852	15,158,392	14,754,762	12,257,818	79,741,613
Nutrition	2,250,000	2,709,355	1,323,871	1,935,000	2,461,935	1,068,194	2,788,065	3,123,000	17,659,419
Radiology	810,958	1,514,758	0	0	0	1,624,113	2,593,790	11,775,179	18,318,798
Dental Unit	0	0	0	0	0	132,823	0	12,725,702	12,858,525
Eye Unit	0	0	0	0	0	150,556	238,906	10,900,057	11,289,520
Renal Unit	0	0	0	0	0	0	0	0	0
Totals	34,832,824	51,474,928	43,358,332	35,171,297	32,927,179	56,429,707	64,379,740	100,409,247	417,882,214

Table 6: Cost Summary for Busia County by Product Category

Cost Summary: Busia county health commodity breakdown by category

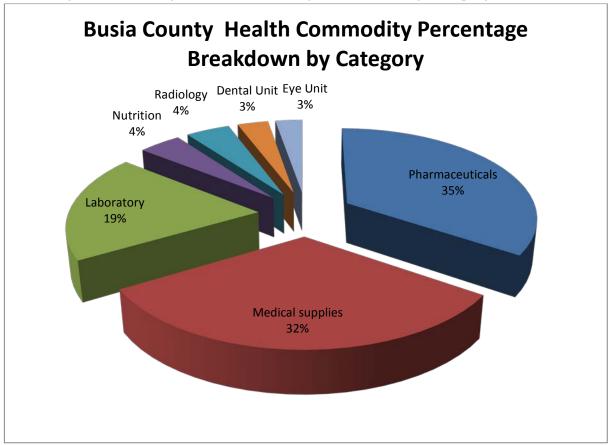


Figure 2: Busia county health commodity breakdown by category

Sources of Commodity Funding for Busia County

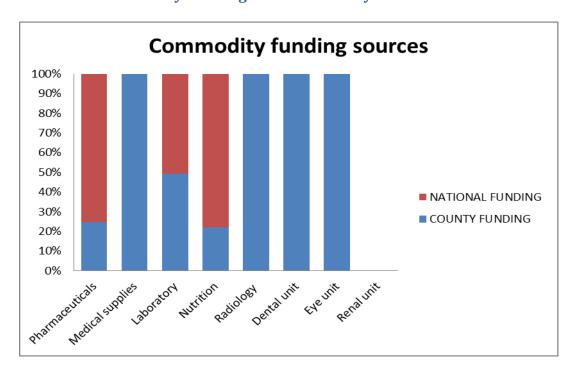


Figure 3: Busia county health commodity funding sources

National health commodity breakdown by category

National Health Commodity Percentage Breakdown by Category

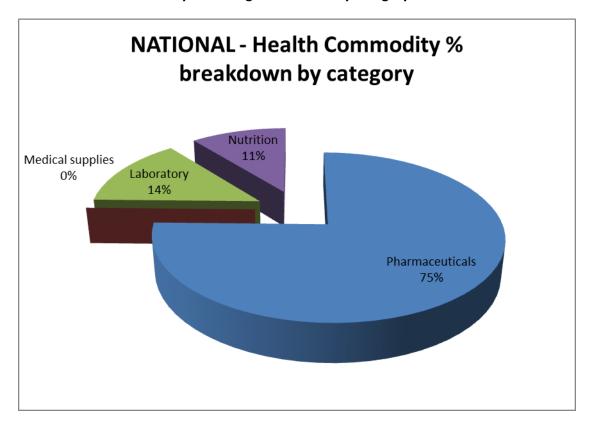


Figure 4: National county health commodity funding sources

Cost Summary by Sub County

Bunyala Sub County Health Commodities Requirement 2015/2016

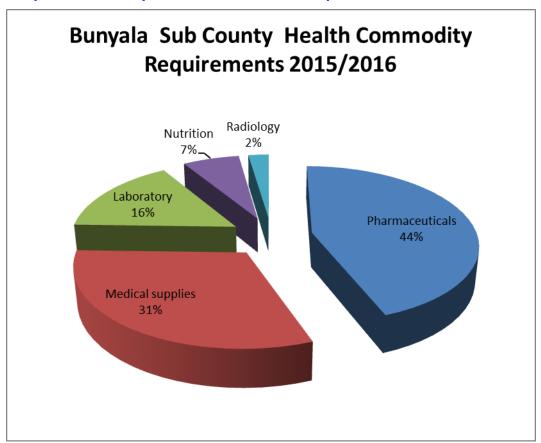


Figure 5: Bunyala Sub County Health Commodities Requirement 2015/2016

Bunyala Sub County Cost Summary Per Product Category

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmacy	15,410,204
Medical Supplies	10,872,980
Lab	5,488,683
Nutrition	2,250,000
Radiology	810,958
Eye	0
Dental	0
Renal	0
Total	34,832,824

Table 7: Bunyala Sub County Cost Summary Per Product Category

Butula Sub County Cost Summary Per Product Category

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmacy	17,573,545
Medical Supplies	19,192,508
Lab	10,484,761
Nutrition	2,709,355
Radiology	1,514,758
Eye	0
Dental	0
Renal	0
Total	51,474,928

Table 8: Butula Sub County Cost Summary Per Product Category 2015/2016

Butula County Health Commodities Requirement 2015/2016

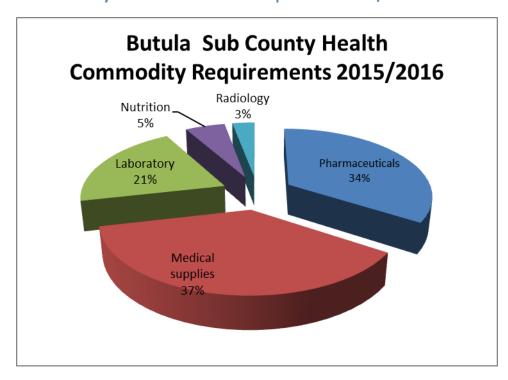


Figure 6: Butula County Health Commodities Requirement 2015/2016

Matayos Sub-County Health Commodities Requirements 2015/2016

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	17,819,404
Medical supplies	15,648,985
Laboratory	8,566,072
Nutrition	1,323,871
Radiology	0
Dental Unit	0
Eye Unit	0
Renal Unit	0
Totals	43,358,332

Table 9: Matayos Sub-County Cost Summary Per Commodity Category

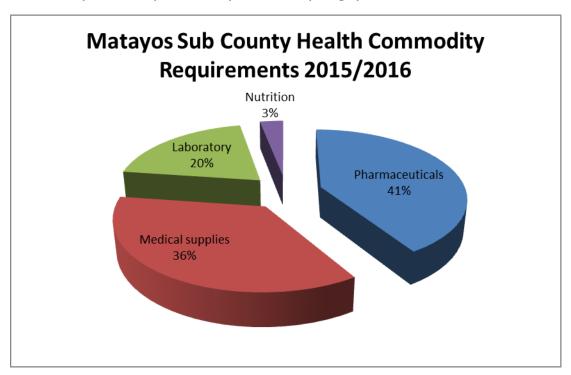


Figure 7: Matayos County Health Commodities Requirement 2015/2016

Nambale Sub County Health Commodity Requirements

Nambale Sub County Cost Summary Per Commodity Category

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)			
Pharmaceuticals	16,430,922			
Medical supplies	9,865,101			
Laboratory	6,940,274			
Nutrition	1,935,000			
Radiology	0			
Dental Unit	0			
Eye Unit	0			
Renal Unit	0			
Totals	35,171,297			

Table 10: Nambale Sub County Cost Summary Per Commodity Category 2015/2016

Nambale County Health Commodities Requirement 2015/2016

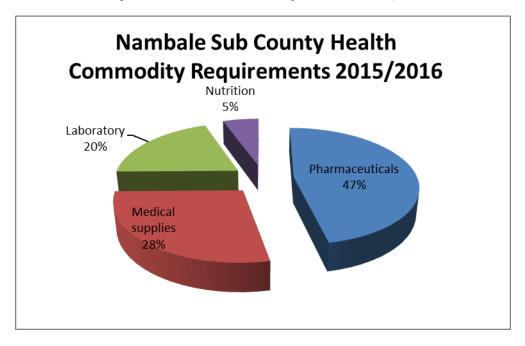


Figure 8: Nambale County Health Commodities Requirement 2015/2016

Samia Sub County Health Commodities Requirements 2015/2016 Samia Sub County Cost Summary Per Commodity Category

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	11,610,664
Medical supplies	12,763,728
Laboratory	6,090,852
Nutrition	2,461,935
Radiology	0
Dental Unit	0
Eye Unit	0
Renal Unit	0
Totals	32,927,179

Table 11: Samia Sub County Cost Summary Per Commodity Category

Samia County Health Commodities Requirement 2015/2016

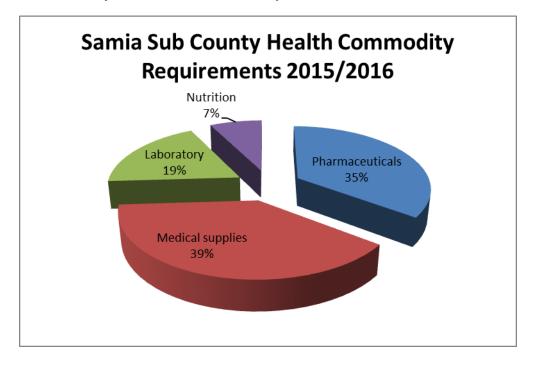


Figure 9: Samia County Health Commodities Requirement 2015/2016

Teso North Sub-county Health Commodity Requirements 2015/2016 Teso North Sub County Cost Summary Per Commodity Category

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	18,292,035
Medical supplies	20,003,595
Laboratory	15,158,392
Nutrition	1,068,194
Radiology	1,624,113
Dental Unit	132,822.0
Eye Unit	150,556
Renal Unit	0
Totals	56,429,706

Table 12: Teso North Sub County Cost Summary Per Commodity Category

Teso North Sub - County Health Commodities Requirements 2015/2016

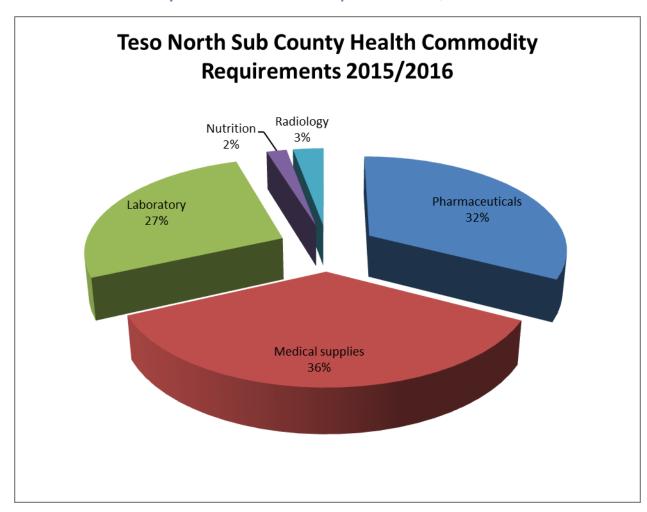


Figure 10: Teso North Sub - County Health Commodities Requirements 2015/2016

Teso South Sub-county Health Commodity Requirements 2015/2016 Teso South Sub County Cost Summary Per Commodity Category

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	19,923,793
Medical supplies	24,080,424
Laboratory	14,754,762
Nutrition	2,788,065
Radiology	2,593,790
Dental Unit	0
Eye Unit	238,906
Renal Unit	0
Totals	64,379,740

Table 13: Teso South Sub County Cost Summary Per Commodity Category

Teso South sub county health commodities requirement 2014/2015

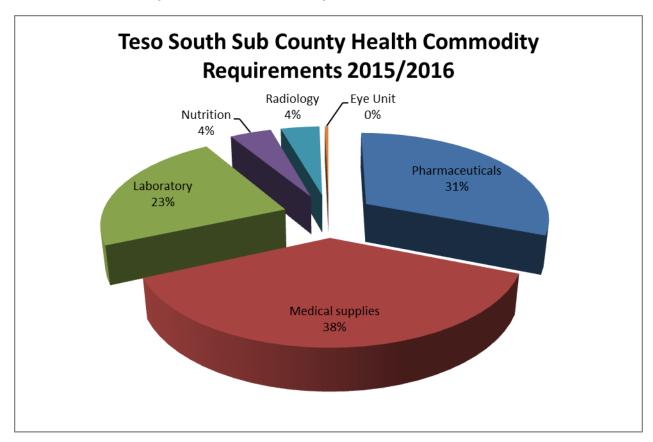


Figure 11: Teso South sub county health commodities requirement 2015/2016

Busia county referral hospital commodities requirement 2014/2015

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	26,826,054
Medical supplies	21,700,396
Laboratory	12,257,818
Nutrition	3,123,000
Radiology	11,775,179
Dental Unit	12,725,702
Eye Unit	10,900,057
Renal Unit	0
Totals	100,409,247

Table 14: Busia county referral hospital Cost Summary Per Commodity Category

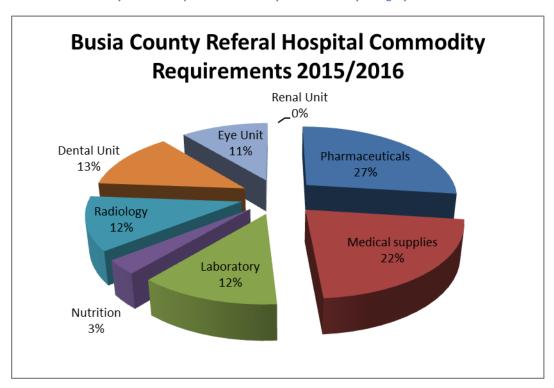


Figure 12: Busia county referral hospital commodities requirement 2015/2016

Holy Family Hospital Nangina commodities requirement 2014/2015

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	3527947
Medical supplies	4575793
Laboratory	2177497
Nutrition	0
Radiology	642048
Dental Unit	0
Eye Unit	0
Renal Unit	0
Totals	10923285

Table 15: Holy Family Hospital Nangina Cost Summary Per Commodity Category

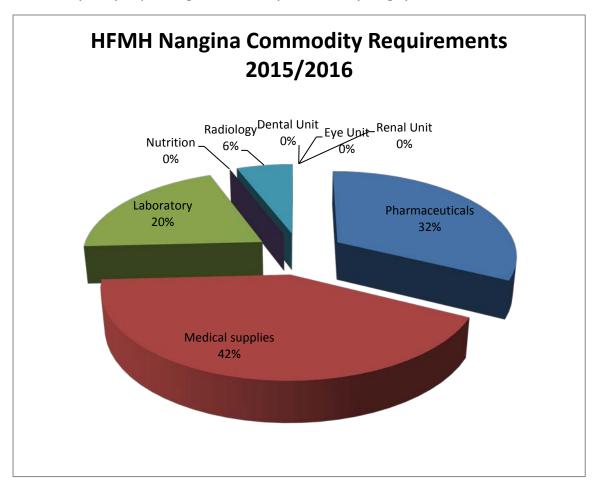


Figure 13: Holy Family Hospital Nangina commodities requirement 2015/2016

Tanaka Nursing Home commodities requirement 2014/2015

Category of Commodities	Value of Quantities to be Procured (in Kenya Shillings)
Pharmaceuticals	3,178,212
Medical supplies	3,631,045
Laboratory	2,171,076
Nutrition	0
Radiology	1,066,452
Dental Unit	0
Eye Unit	0
Renal Unit	0
Totals	10,046,785

Table 16: Tanaka Nursing Home Cost Summary Per Commodity Category

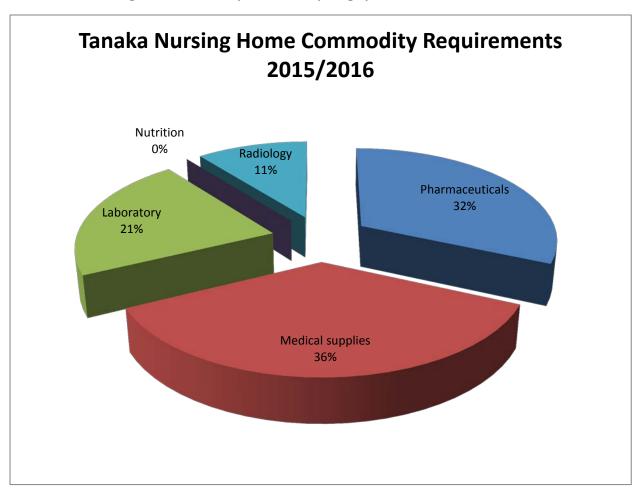


Figure 14: Tanaka Nursing Home commodities requirement 2015/2016

Conclusion

Capture overall impression about the quantification process and results, state conclusion(s)

- Impact of quantification on county health service delivery
- Enhanced capacity of county team
- Use of quantification results for planning and decision making
- Highlight key gaps that may have been identified during quantification process

This is the second quantification exercise under the technical assistance from HCSM. Generally, the activity was implemented successfully as the sub-county and county teams used the lessons learned from the last quantification exercise. There was significant improvement in the data collection process which contributed to availability of quality data used for the quantification workshop. The quantification team was highly motivated and team work was evident during the quantification workshop. This enabled the quantification process to achieve expected outputs of sub-county and county aggregation by the end of the workshop. In addition, the CHMT led by the County Pharmacist Dr. Sylvano Katayi, exhibited great commitment to the quantification process an indication that the county team will be able to effectively undertake the future quantification exercises.

The data collection process was however not without challenges. There was evidence of poor record keeping practices in the facilities and minimal use of stock records. Moreover, it was also evident that stock taking procedures were not practiced in most facilities. Periodic monitoring of consumption and stock levels is vital in ensuring effective management of commodities. However, stock control practices are largely ignored probably due to the fact that the responsible staff are not pharmaceutical staff hence do not give this aspect of inventory management the seriousness it deserves.

To enhance the quantification process, the CHMT under the guidance of the Commodity TWG will need to strengthen stock control at the facility level. Good inventory management with emphasis on good stock record keeping will need to be given priority in the facilities. This calls for regular support supervision as well as capacity building of the facility staff.

In conclusion, this Busia County quantification exercise is a great milestone in achieving efficiency in the supply chain planning and procurement for health commodities in the county. It has provided a general view of the requirements of health commodities by level of care for the public health facilities. The availability of this quantification requirements will be able to guide the CHMT in planning for their annual requirements. It will also form a basis of rationalizing the commodity needs for the different level of care.

HCSM provided support in building capacity of the county team to be able to successfully undertake this quantification exercise. Involvement of the county and sub-county teams has ensured full participation of the county in the quantification exercise. The establishment of the County Quantification Team has set a system in place for continuity of this process which will include periodic reviews of the quantification plan.

Recommendations

- I. The CHMT through the county quantification team to provide guidance and leadership in this annual quantification exercise. One of the key areas to be given priority is the availability of quality consumption data from the facilities. The county should make provision for bin cards and relevant registers for this purpose.
- 2. Periodic stock counts should be carried out in health facilities and results recorded in bin cards.
- 3. Capacity building of facility staff on the use of commodity management tools especially the bin cards, reporting and ordering of commodities and good record keeping practices.
- 4. Period reviews of consumption data at the facility level to be carried out by the County and sub-county teams.

Next Steps

- I. Dissemination of the report to the Commodity security TWG and the CHMT for review and comments
- 2. Incorporation of the recommendation from the TWG and CHMT to finalize the report
- 3. Dissemination of the report to the County health assembly members.

Appendices

Appendix 1:

Program for Busia County Quantification Briefing

Workshop dates : April 17 2015

Venue : Rastopark Hotel, Busia

Number of participants: 33

	DATA COLLECTORS BRIEFING							
Time	Session No.	Session	Time allocated	Facilitator				
08:00 - 8:30		Arrival and Registration	30 min	MSH/CHMT				
08:30- 09:00		Introductions, Climate setting and expectations	30 min	Alice Yaite				
09:00 -09:15		Welcoming Remarks	15 min	Dr. Katayi				
09:15 -10:15	Session I	Orientation Overview	30 min	Lillian Gitau				
10:15- 11:15	Session 2	Introduction to Quantification	60 min	Lillian Gitau				
11:15 - 11:30		TEA BREAK						
11:30- 12:00	Session 3	Data Collection for Forecasting	30 min	Lillian Gitau				
12.00- 1.30	Session 4	Introduction to Excel Quantification Templates	90 min	Lillian Gitau				
1.30 – 2.15	Session 5	Planning for Data Collection	45 min	Lillian Gitau				
2.15 – 2.30		Closing Remarks		Mr Ali Atemba				
2.30	LUNCH and DEPARTURE							

Appendix 2:

County Quantification Workshop Program

PROGRAM FOR BUSIA COUNTY QUANTIFICATION WORKSHOP

Workshop dates : May 13 to 15 2015

Venue : Jumuia Resort Kisumu

Time	Session No.	No.		Facilitator					
Chair: Alice Yaite									
08:00 - 8:15		Registration	30 min	MSH.HCSM					
08:15- 08:30		Introduction and expectations	15 min	Alice Yaite					
08:30 -08:45		Welcoming Remarks	15 min	Dr. Katayi					
08:45 – 09:30	Session 3	Course Overview: Workshop Goal, Objectives & Schedules	30 min	Lillian Gitau					
09:30 -10:00	Session 4	Introduction to Quantification	30 min	Lillian Gitau					
10:00-10:30	Session 5	Introduction to Forecasting Methodologies	30 min	Dr. Victor Sumbi					
10:30-10:45		Tea Break	15 min						
10:45-11:30	Session 6	Practical Applications of Forecasting methodologies	45 min	Dr. Victor Sumbi					
11:30-12:30	Session 7	Presentation and review of Facility health commodity quantification data	60 min	Dr. Katayi					
12:30-13:15 Session 8		Assumptions and Decision Making for Forecasting	45 min	Dr. Victor Sumbi					
13:15-14:15		Lunch	60 min						
14:15-14:45		Introduction to quantification group work - Facility data validation (Participants in sub county teams)	30 min	Dr. Victor Sumbi					
14:45-15:30		Quantification group work – sub county validation of facility data	45 min	Dr. Victor Sumbi					
15:30 -15:45		Tea Break	15 min						
15:45 -17:00		Quantification group work – sub county validation of facility data	75 min	Dr. Victor Sumbi					
17:00		Adjournment							

Time	Session	Session	Time	Facilitator
	No.		allocated	
		Chair: Rose Okuku		
08:15 - 8:30		Recap of Day I	15 min	Participant
08:30-10:30		Quantification group work – sub county validation of facility data	I20 min	Lillian Gitau
10:30-10.45		Tea Break	15 min	
10:45-11:15		Introduction to sub county aggregation process	30 min	Dr. Victor Sumbi
11:15-13:00		Group work – sub county aggregation of facility data	105 min	Alice Yaite
13:00 –14:00		Lunch	60 min	
14:00 – 15:30		Group work – sub county aggregation of facility data	90 min	Alice Yaite
15:30-15:45		Tea Break	15 min	
15:45-16:15		Introduction to sub county extrapolation process	30 min	Dr. Victor Sumbi
16:15 – 17:00		Group work – sub county aggregation	45 min	Scholastic
17.00		extrapolation of facility data		Nabade
17:00		Adjournment		
Day 3: May 15	5 2015			
Time		·		
Time	Session No.	Session	Time allocated	Facilitator
Tille		Chair: Moses Magero		Facilitator
08:15-0 8:30				Facilitator Participant
08:15-0 8:30 08:30 - 10:00		Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data	allocated	
08:15-0 8:30		Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation	allocated 15 min	Participant
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45		Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break	15 min 90 min	Participant
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30		Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data	15 min 90 min 30 min 15 min 60 min	Participant
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45		Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data	15 min 90 min 30 min 15 min 60 min	Participant
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45		Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast	15 min 90 min 30 min 15 min 60 min	Participant
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45 11:45-12:15 12:15-13:00	No. Session 9	Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast and validation Introduction to supply planning/procurement planning Lunch	15 min 90 min 30 min 15 min 60 min 45 min	Participant Rose Okuku
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45 11:45-12:15 12:15-13:00	No.	Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast and validation Introduction to supply planning/procurement planning	15 min 90 min 30 min 15 min 60 min 30 min	Participant
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45 11:45-12:15 12:15-13:00	No. Session 9	Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast and validation Introduction to supply planning/procurement planning Lunch Rationalization of quantified commodities	15 min 90 min 30 min 15 min 60 min 45 min	Participant Rose Okuku
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45 11:45-12:15 12:15-13:00 13:00-14:00 14:00-14:45 14:45-15:15 15:15-16:15	No. Session 9 Session 10	Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast and validation Introduction to supply planning/procurement planning Lunch Rationalization of quantified commodities against budgets	15 min 90 min 30 min 15 min 60 min 45 min 60 min 45 min	Participant Rose Okuku Dr. Victor Sumbi
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45 11:45-12:15 12:15-13:00 13:00-14:00 14:00-14:45	Session 9 Session 10 Session 11	Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast and validation Introduction to supply planning/procurement planning Lunch Rationalization of quantified commodities against budgets Quantification and M&E	15 min 90 min 30 min 15 min 60 min 45 min 45 min 30 min	Participant Rose Okuku Dr. Victor Sumbi Dr Katayi
08:15-0 8:30 08:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:45 11:45-12:15 12:15-13:00 13:00-14:00 14:00-14:45 14:45-15:15 15:15-16:15	Session 9 Session 10 Session 11	Chair: Moses Magero Recap of Day 2 Group work – sub county aggregation extrapolation of facility data Group work – validation of sub county data Tea Break Presentation of aggregated sub county forecasts and aggregation of sub county data at county level Presentation of aggregated county forecast and validation Introduction to supply planning/procurement planning Lunch Rationalization of quantified commodities against budgets Quantification and M&E Action planning	15 min 90 min 30 min 15 min 60 min 45 min 45 min 30 min 45 min	Participant Rose Okuku Dr. Victor Sumbi Dr Katayi

Appendix 3:

County Quantification Workshop Participants List

Meeting: Busia County Quantification Workshop

Venue: <u>Jumuia Hotel, Kisumu</u> DATE: <u>May 13 to 15, 2015</u>

No	Name of Participant	Gender (M/F)	Cadre	Facility	Telephone No.	ID No.	Postal Address	Sub- county
1.	Vincent Omondi	M	MLT	Sio Port SCH	714234042	24222508	465 Funyula	Samia
2.	Joan .K Ochieng	F	Pharm Tech	Sio Port SCH	720955492	23628737	465 Funyula	Samia
3.	Judith A.Agembo	F	N.O	Samia SC MOH	717209498	9182866	465 Funyula	Samia
4.	Phelgona Achieng Otieno	F	SCPHN	Samia SC MOH	724702962	6469757	465 Funyula	Samia
5.	Charles Ojune	М	SCMLT	Matayos	728386095	<u>O683609</u>	87 Busia	Matayos
6.	Africanus Ikapel	М	SCMLT	Teso South	720172912	5791113	150 Amukura	Teso South
7.	Mary. M.A. Atelu	F	SNO	Busia CRH	722454558	22988561	87 Busia	Matayos
8.	Linet Willie Mukhongo	F	N.O	Busia CRH	725438238	23736467	87 Busia	Matayos
9.	Fridah N. Sirma	F	SMLT	Busia CRH	722612533	4009267	87 Busia	Matayos
10.	Seline A.Owenga	F	Nurse	Nangina Mission Hosp	720304731	10218121	57 Funyula	Samia
11.	Chrispinus Akeba	M	SCMLT	Bunyala MOH	712121057	0683889	19 Port Victoria	Bunyala
12.	Golder Akotch Obongo	F	Pharm Tech	Nangina Mission Hosp	724627633	26452843	57 Funyula	Samia

No	Name of Participant	Gender (M/F)	Cadre	Facility	Telephone No.	ID No.	Postal Address	Sub- county
13.	Elias Opemi Ekweny	М	SMLT	Alupe Sub County Hosp	720030195	11031522	35 Busia	Teso South
14.	Allan Wekesa	М	SC Pharma cist	Teso South	722150848	24302885	35 Busia	Teso South
15.	Indieka B.Robert	М	SCMLT	Butula	723544809	2202249	84 Busia	Butula
16.	Peter Bichanga Mose	M	SMLT	Nambale SCH	728421307	10909973	87 Busia	Nambale
17.	Brenda Gillian .M	F	Pharma sist	Khunyang u SCH	700404602	<u>29849309</u>	84 Bumala	Butula
18.	Jackline Kegode	F	SCMLT	Nambale MOH	721897112	2184988	280 Nambale	Nambale
19.	Flevian Ouyo	F	SCNO	Nambale MOH	724227538	24254918	280 Nambale	Nambale
20.	Jane Mumbi	F	NO	Nambale MOH	720407348	11827206	280 Nambale	Nambale
21.	Jackson Kiyayi	М	Radiogr apher	Busia CRH	722988731	0998489	87 Busia	Matayos
22.	Reuben Sirigwa Nyongesa	М	SCPHN	Teso South MOH	722967726	0190468	150 Amukura	Teso South
23.	Moses Z Okumu	М	Pharm Tech	Tanaka Nursing Home	728317800	22520079	485 Busia	Matayos
24.	Charles Muhadi Konzoro	М	Nurse	Tanaka Nursing Home	722359351	9158546	485 Busia	Matayos
25.	Magdaline Ikaal	F	SNO	Alupe Sub County Hospital	725941340	10907549	35 Busia	Teso South

No	Name of Participant	Gender (M/F)	Cadre	Facility	Telephone No.	ID No.	Postal Address	Sub-
26.	Epher Omondi	M	Pharma	Teso	727020446	23551842	99 Amagoro	Teso
20.	Ooko	IVI	cist	North	727020440	23331042	33 Amagoro	North
27.	Omongor S	М	SCPHN	Teso	722485080	0259071	99 Amagoro	Teso
	Odukis			North				North
28.	Zadock Ambe	М	MLT	Teso	721778346	21663168	99 Amagoro	Teso
				North				North
29.	Rosemary I	F	SCNO	Teso	715375231	7513417	99 Amagoro	Teso
	Munyu			North				North
30.	Loice Ohenga	F	Pharma	BCRH	710889424	22959159	87 Busia	Matayos
			cist					
31.	Belina Munyiri	F	SCPHN	BCRH	721778654	8972011	87 Busia	Matayos
32.	Rosebellah	M	SCPHN	Khunyang	721614279	<u>6348666</u>	84 Bumala	Butula
	Odindo			u MOH				
33.	Edwin Barasa	М	Pharma	Port	725786802	23698137	19 Port	Bunyala
			cist	Victoria			Victoria	
				SCH				
34.	Godfrey Omondi	М	SCNO	Port	722940808	8471283	19 Port	Bunyala
				Victoria			Victoria	
				SCH				
35.	Wilberforce	М	SCPHN	Nambale	724596664	8913854	280	Nambale
	Were			МОН			Nambale	
36.	Tom Wanyama	M	SCPT	Nambale	721316375	24462622	280	Nambale
				МОН			Nambale	
37.	Florence Juma	F	Nurse	Bunyala	715456767	12685262	19 Port	Bunyala
				sc			Victoria	
38.	Edward Okinda	М	Pharma	BCRH	723006706	<u>25552992</u>	87 Busia	Matayos
	Katayi		cist					
39.	Moses Magero	М	HRIO	Busia	721898783	11278527	1040 Busia	Matayos
				County				
40.	Alice Yaite	F	DCNO	Busia	721770108	<u>693402</u>	1040 Busia	Matayos
	L	<u> </u>	I	Ī.	<u> </u>	<u>I</u>	I	<u> </u>

No	Name of Participant	Gender (M/F)	Cadre	Facility	Telephone No.	ID No.	Postal Address	Sub- county
				County				
41.	Rosemary Okuku	F	DCLC	Busia County	722431811	10918054	1040 Busia	Matayos
42.	Juliet Kilima	F	NO	Busia County	722571603	22977895	87 Busia	Matayos
43.	Sylvano Katayi	M	SCNO	Butula	728619468	23794455	1040 Busia	Matayos
44.	Douglas Bwire	М	SCNO	Butula	721293482	<u>5792775</u>	84 Bumala	Butula
45.	Victor Sumbi							
46.	Lillian Gitau	F	STA	MSH/H CSM	705 549898	5440463		Bungoma

Appendix 4:

Additional Items

No	Item Description (Name, Form, Strength)	Pack Size	Price Per pack in KES	CR H	SC H	PHC	Count	Natio nal
Laboratory						1	1	1
1	Bijou bottles	рс	38					
2	Microtainer Red Top	50 pcs	1,000					
3	Microtainer EDTA	50 pcs	1,000					
4	Blood Lancets	100 pcs	500					
Nutrition								
1	Adolitrace	10ml Amp	1,500	х			х	
2	Aminosteril N Hepa 8%	500ml Bottle	2,500	х			х	
3	B-immune	sachets	500	х			х	
4	FM 85	200gm Tin	2,500	х	Х		х	
5	Frebin energy Drink	200ml Bottle	500	х			х	
6	Frebin energy Fibre Drink	200ml Bottle	500	х			х	
7	Fresubin 2 kcal Drink	200ml Bottle	500	х			х	
8	Fresubin 2 kcal Fibre Drink	200ml Bottle	500	х			х	
9	Multiple Micronutrient Powder	1 Box of 100 sachets	500	х	х	х	х	
10	Nan 1	400gm Tin	1,200	х	х		х	
11	Nephrosteril 7%	500ml Bottle	2,500	х			х	
12	Peditrace	10ml Amp	1,500	х			х	
13	Pre- Nan	400gm Tin	1,400	х	х		х	
14	ProvideXtra	200ml Bottle	500	х			х	
15	Replace	400gm Tin	2,160	х			х	
16	RUSF	Sachet 92g	40	х	Х	х		х
17	Soluvit N	10ml Amp	1,500	х			х	
18	Vitalipid Adult	10ml Amp	1,500	х			х	
19	Vitalipid Infant	10ml Amp	1,500	х			х	
Medical Sup	plies	•			•			
1	Chromic catgut No 0 (RB)	Doz	480					
2	Chromic catgut No 0 (RC)	Doz	480					
3	Chromic catgut No 1 (RB)	Doz	480					
4	Chromic catgut No 1 (RC)	Doz	480					
5	Chromic catgut No 2 (RB)	Doz	480					
6	Chromic catgut No 2 (RC)	Doz	480					
7	Chromic catgut No 2/0 (RB	Doz	480					
8	Chromic catgut No 2/0 (RC)	Doz	480					
9	Needles G21	100s	500					

No	Item Description (Name,	Pack Size	Price Per	CR	SC	PHC	Count	Natio
	Form, Strength)		pack in KES	Н	Н		У	nal
10	Needles G23	100s	500					
11	Suture polyglactin No1 (RC)	Doz	1,550					
12	Suture polyglactin No2/0 (RC)	Doz	1,550					
13	Suture Polyglatin No 2 (RB)	Doz	1,550					
Pharmaceutic	als						•	
1	Anti-haemorrhoidal cream/ointment	15g Tube	10					
2	Anti-snake Venom	vial	5					
3	Asprin Cardiac Tablet 75mg	28 Pack	5					
4	Etamysylate Injection 250mg	vial	10					
5	Etamysylate Tablets 250mg	50/Pack	0					
6	Olanzapine Tablets 10mg	30/Pack	0					
7	Phenoxymethyl Penicillin 250mg	1000						
8	Proguanil Tablets 100mg	56						
9	Pyridoxine (Vitamin B6) 50mg Tablets	100/Pack	30					
10	Rabies Vaccine	vial	15					
11	Ranitidine Injection 50mg/ml	amp	25					
12	Spironolactone 25mg Tablets	1000	2					
13	Sulfadoxine/Pyrimethamine	1000 Tin	0					
14	Tramadol 50mg Capsule	20/Pack	0					
15	Tramadol Injection 100mg	amp	50					

Appendix 5:

List of Health Facilities from which Commodity Data was Collected

_	Facilities							
Subcounty	Hospital	Health Center	Dispensary					
Bunyala	Port Victoria SC Hospital	MukhobolaRukala Model	SisenyeBudalangi					
Matayos	Busia CRHTanaka	NasewaMatayos	MunongoBusibwabo DispBukalama Disp					
Butula	Khunyangu SC Hospital	Bumala BIkonzoButula Mission HC	Bumuturi Masendebale					
Nambale	Nambale	LupidaMadende Model	LwanyangeManyanga					
Samia	Sio PortHoly Family Mission Hospital Nangina	NambobotoNambuku	Namuduru Nangina					
Teso North	Kocholia	Angurai Moding	MalabaKamolo					
Teso South	Alupe	Amukura Lukolis	AkoporMoru Karisa					

Appendix 6:

Data Collection Team

- 1. Douglas Bwire
- 2. Charles Ojune
- 3. Linet Mukhongo
- 4. Loice Ohenga
- 5. Juliet Kilima
- 6. Flevian Ouyo
- 7. Jackline Kegode
- 8. Jane Mumbi Ritho
- 9. Peter Bichanga Mose
- 10. Wilberforce Were
- 11. Golder Akoth Abongo
- 12. Judith Agembo
- 13. Selline Achieng Owenga
- 14. Rosemary Omunyu
- 15. Elias Opemi Ekweny
- 16. Africanus Ikapel

Quantification team

- Samia Vincent Omondi
- Bunyala- Dr. Baraza
- Teso South- Dr. Allan
- Butula- Rosebella Odindo
- Matayos- Belinda
- BCRH- Dr. Okinda
- Nangina- Merinda
- Tanaka- Moses
- Teso North- Zadock
- Nambale- Tom
- Nutritionist- Nabade

Appendix 7:

List the facilities

• Teso North Sub-county

High volume health centre- Angurai Low volume health centre- Moding High volume dispensary – Malaba Low volume dispensary- Kamolo Hospital facility- Kocholia sub-county hospital

• Teso South Sub-county

High volume health centre- Amukura Low volume health centre- Lakolis High volume dispensary – Apokor Low volume dispensary- Ngelechom Hospital facility- Alupe hospital

• Butula Sub-county

High volume health centre-Bumala B Low volume health centre-

- o Ikonzo model
- o Butula mission

High volume dispensary – Bumutiru Low volume dispensary – Masendebale Hospital facility – Khunyangu Sub-county hospital

• Samia Sub-county

High volume health centre- Nambuku model HC Low volume health centre- Namboboto High volume dispensary – Nangina Low volume dispensary- Namuduru Hospital facility- Sio Port Sub-county hospital HFMH Nangina

• Matayos Sub-county

High volume health centre- Matayos hc Low volume health centre- Nasewa High volume dispensary – Busibwabo Low volume dispensary-

- o Bukalama
- o Munongo

Busia County Referral Hospital Tanaka Nursing Home

• Nambale Sub-county

High volume health centre- Lupida Low volume health centre- Madende High volume dispensary – Malanga Low volume dispensary - Lwanyange Hospital facility - Nambale Sub-county hospital

• Bunyala Sub-county

High volume health centre- Mukhobola Low volume health centre- Lukala High volume dispensary – Budalangi Low volume dispensary- Sisenye Hospital facility- Port Victoria Sub-county hospital