



NAIROBI CITY COUNTY
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HEALTH, WELLNESS AND NUTRITION

NAIROBI CITY COUNTY

QUANTIFICATION REPORT

FOR HEALTH PRODUCTS AND

TECHNOLOGIES

FY 2024/2025 to FY 2026/2027

NOVEMBER 2024

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ACRONYMS

AMC	Average Monthly Consumption
CHMT	County Health Management Team
CECM	County Executive Committee Member
DAR	Daily Activity Register
EMMS	Essential Medicines and Medical Supplies
FBO	Faith-Based Organization
HPT	Health Products and Technologies
HPTU	Health Products and Technologies Unit
IPs	Implementing Partners
KEMSA	Kenya Medical Supplies Authority
MOH	Ministry of Health
MOS	Months of Stock

FOREWORD



Quantification of Health Products and Technologies (HPTs) serves as a guide for funding healthcare to finance medicines aimed at achieving therapeutic objectives in response to prioritized public health needs. It is also intended to guide health policy, focusing attention and resources on financing medicines, which is expected to inform the policy and regulatory mechanisms for accessing essential medicines.

HPT quantification must fully respond to the aims and objectives of County health policies and strategies. The HPT quantification report should therefore be used with confidence and commitment as a highly relevant, evidence-based, and up-to-date reference document. The systematic and well-managed consensus-based process through which the report has been produced has ensured the incorporation of current evidence-based best practices backed by extensive scientific data and robust selection criteria application. Consequently, the selection of the items listed is well justified and suitably adapted to the prevailing health sector context. The methodology for review ensured that the document adequately addressed medicine selection from healthcare levels 1 to 5. This makes this report essential for planning, budgeting, and procurement to enhance quality service delivery and promote primary healthcare across Nairobi County.

This arduous and technically complex task was completed only through the sustained commitment and dedicated work of many individuals who contributed their time and expertise at various stages of its development, with technical and financial support from the Division of Health Products and Technologies (DHPT), Kenya Medical Supplies Authority (KEMSA), County/Sub-County technical working groups, CIHEB- CONNECT, USAID- Fahari Ya Jamii, ThinkWell, and inSupply Health.

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Ms. Suzanne Silantoi,
The County Executive Committee Member (CECM)
Health Wellness and Nutrition Sector
Nairobi City County Government

ACKNOWLEDGEMENTS

The Nairobi City County Government - Health, Wellness, and Nutrition Sector wishes to acknowledge and thank the County, Sub-County, Hospital, and Facility HPTs quantification teams for their commitment and efforts in this activity. The quantification team consisted of technical officers from the county health products and technologies unit (HPTU), the Sub-County health management team, and representatives from Public Health facilities. The team was joined by representatives from partners (inSupply Health, CIHEB- CONNECT, USAID- Fahari Ya Jamii, ThinkWell, and KEMSA) who provided much-needed technical support.

The team's effort towards quantification of health products and technologies for the public health sector 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 inSupply Health Kenya. The Ministry of Health- Directorate of Health Products and Technologies (DHPT) provided oversight and coordination for this activity.

EXECUTIVE SUMMARY

Access to commodities is critical in improving health outcomes. Despite remarkable progress toward the improvement of health indicators, access to commodities has not been fully achieved due to unavailability, unaffordability, regulatory provisions, and supply chain challenges. Provision and access to quality health commodities can be achieved through strengthening the health commodities supply chain. Continuous availability and efficient management of Health Products and Technologies (HPT) are essential to achieving universal health coverage (UHC). UHC cannot be achieved without access to essential Health Products and Technologies. Ensuring access to the necessary health products and technologies requires information on the needs across various levels of care.

Health commodities constitute a large proportion of the budgetary allocation and health facilities are often faced with either shortages or wastages as a result of overstocking. One of the contributing factors to this occurrence is sub-optimal forecasts of the HPT requirements thus a supply plan not aligned to demand and consequently inefficient or delayed procurement.

To this end, the Nairobi County Health Wellness and Nutrition sector team, with technical support from inSupply Health Africa and Thinkwell, embarked on a quantification exercise in August 2024 whose goal was to determine HPTs requirements for a period of 3years (FY 2024/25 to FY2026/27). The development of this quantification report will be a key document for commodity security and supply chain strategy as well as serve as a guide during budget allocation for procurement of HPT.

The exercise aimed to forecast the total HPT requirements for 119 public sector facilities in Nairobi County over the next three financial years. In August 2024, a two-day meeting was held to orient the County and Sub-County quantification teams on data collection methodology and tools, followed by a seven-day data collection exercise at selected health facilities. A four-day workshop took place from October 14th to 17th, 2024, to review, clean, and aggregate the data, as well as to extrapolate for the health facilities where data was not collected.

From the quantification exercise, the total value of HPT requirements for the next financial year was estimated at Kshs. **3,686,898,723** for FY2024-25. **Table 2** shows a breakdown of category requirements by Sub-County for Nairobi County (inclusive of buffer), and **Table 4** presents category requirements across all commodity categories by level of care.

The quantification team also prepared a “Next Steps” chart to ensure the completion of the exercise.

1. BACKGROUND AND INTRODUCTION

In August 2010, the Constitution of Kenya was promulgated, establishing devolution as a foundation for improving access to services for the people of Kenya. The devolution of health services began immediately after the general election in March 2013. Each of the 47 counties was required to plan and budget for health services, a necessity made even more pressing by the shift toward self-reliance and decreasing partner support.

With technical support from the inSupply Health Activity and oversight by the Ministry of Health (MOH)/Department of Health Products and Technologies (DHPT), Nairobi County Health Services planned to quantify HPTs requirements in terms of quantities and costs for the County. This quantification would provide an evidence base for budgeting and supply planning.

2. OBJECTIVES

The objectives of the quantification workshop were to:

1. Train a team of health workers on the purpose and process of HPTs quantification.
2. Build the capacity of a "County Quantification Team" to continuously improve and support the quantification process.
3. Determine the County's HPTs requirements for the next three financial years.

Scope of the quantification

This exercise aimed to furnish comprehensive data on the health products and technologies requirements across all public health facilities in Nairobi County. The selection of products was guided by county needs, essential medicines lists, and care level-specific clinical guidelines. These included: pharmaceuticals, medical supplies, laboratory, eye, dental, nutrition, orthopedic implants, renal, radiology, and radiotherapy commodities. The quantification spans three years, encompassing the financial years 2024/2025 through 2026/2027.

3. METHODOLOGY

3.1. Sampling

A total of 57 public facilities were sampled, including:

- 4 Level 5 hospitals
- 4 Level 4 hospitals
- 20 Level 3 facilities
- 29 Level 2 facilities

For Level 2 and 3 facilities, a purposive sampling approach was used. This included one high-volume and one low-volume dispensary and health center per sub-county based on the 2023 workload. Workload data was obtained from the Kenya Health Information System (KHIS). (Refer to Appendix 3 for workload data.)

3.2. Data Collection

A multidisciplinary team of pharmacy, nursing, and laboratory staff from the ten sub-counties participated in a two-day orientation on the data collection tools from August 12th to 13th, 2024. Representatives from county nutrition, radiology, rehabilitation, and dental units were also included. The teams were then tasked with collecting the required data from health facilities in their respective sub-counties. Data collection took place over seven days in August 2024.

During data collection, the trained team, alongside the County HPTU team and facility staff, gathered six months' consumption data (January to June 2024) from health facility records—such as stock cards, daily activity registers, and monthly summary reports. They also recorded the number of days items were out of stock over the six months. When consumption data was unavailable due to poor record keeping or prolonged stock-outs, the team conferred with facility staff and used morbidity data and other relevant information to estimate commodity requirements. All data was entered into a Microsoft Excel workbook developed for this exercise.

3.3. Quantification Workshop

A data verification workshop was conducted from October 14th to 17th, 2024, in Nairobi. During the workshop, data was reviewed and cleaned by a multidisciplinary team comprising the DHPT, County HPTU, Sub-County teams, select Level 5 facility staff, KEMSA, Thinkwell, CIHEB- CONNECT, USAID- Fahari ya Jamii, and inSupply Health.

The validation process involved identifying and correcting consumption outliers, verifying data collection tool formulas and prices, categorizing funding sources, eliminating duplicate health products and technologies (HPTs), and adjusting or updating assumptions for commodities without consumption data. Sub-county aggregation and extrapolation were conducted using an automation tool developed by inSupply Health.

Figure 1: Quantification Process

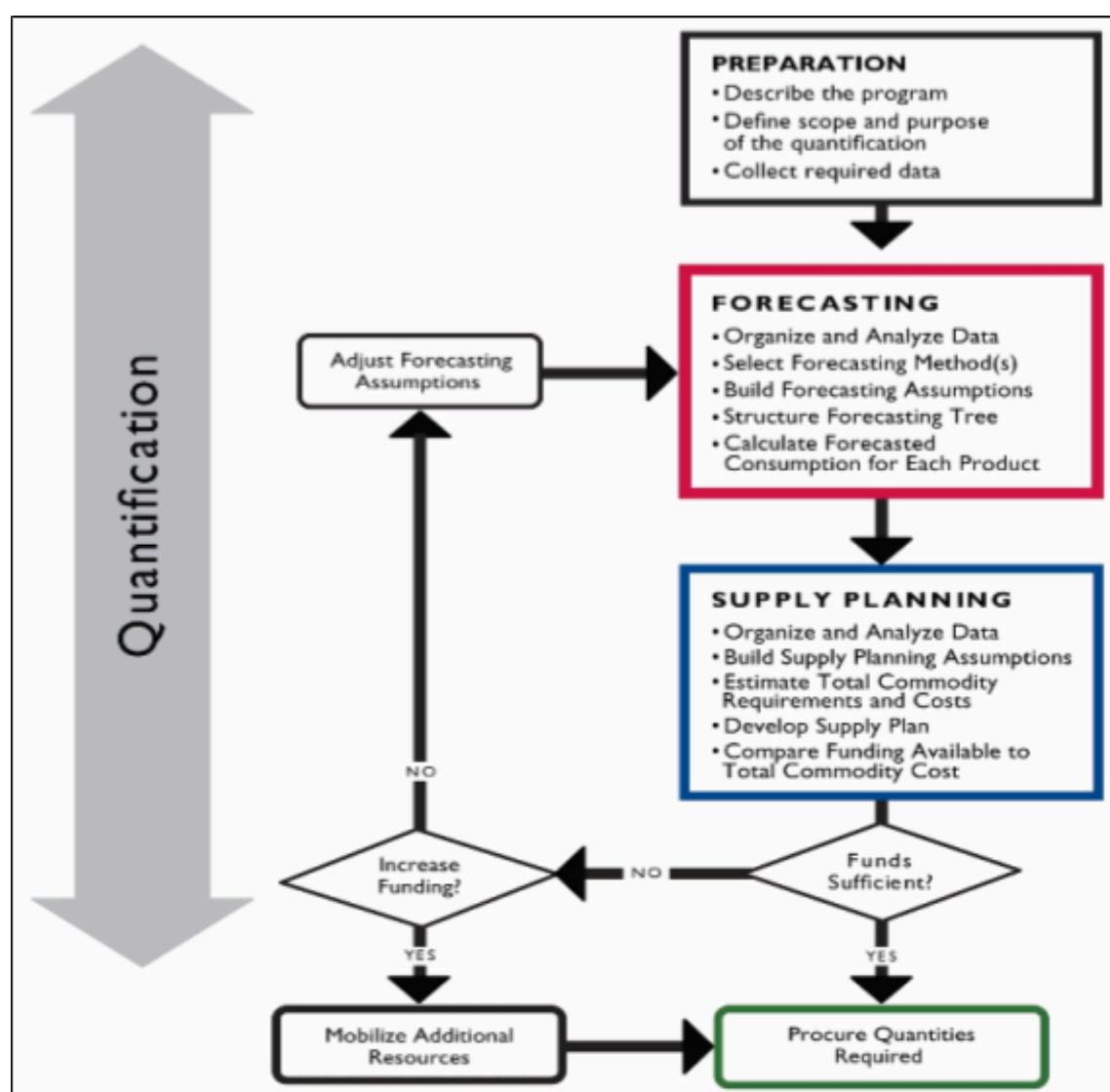


Figure 1: The Quantification Process

3.4. Assumptions

The following assumptions were made:

1. Consumption in most facilities would remain unchanged.
2. The supply of commodities would be timely once the procurement process is initiated.
3. Level 2 and 3 facilities included in the sample would be validated and used for extrapolation of requirements for facilities not included in the sample.
4. The sampled facilities are representative of a given level of care.
5. The lead time for procurement of commodities would not exceed three months.
6. All facilities would be able to store all commodities they procure and would have supply plans that align deliveries with consumption and available storage space.
7. Priority Health Programs (PHP) commodities would continue to be supplied by the national government.
8. A buffer stock of three months was built into the forecasts.

9. Overstocked commodities identified during the quantification process would be redistributed.
10. Delivery of commodities would be direct (from the supplier) to the health facilities.
11. The commodity re-supply cycle would be quarterly.
12. KEMSA prices would be used during the quantification process.
13. New health programs would identify commodity requirements and quantify them independently to start; their requirements would be incorporated in the next quantification cycle.
14. Where a facility has missing data, it may adopt data from a comparable facility in another sub-county and adjust the consumption in line with the workload.
15. Where there is no consumption data (for items out of stock for over 90 days), consumption would be estimated using other data sources, e.g., morbidity statistics and historical experience. In such cases, the estimated consumption would be entered, and no out-of-stock data would be recorded.
16. Inflation and other key economic indicators would remain steady during the financial year.
17. To obtain forecasts for years 2 and 3, a 4% increment was successively applied to the year 1 and year 2 forecasts, respectively.

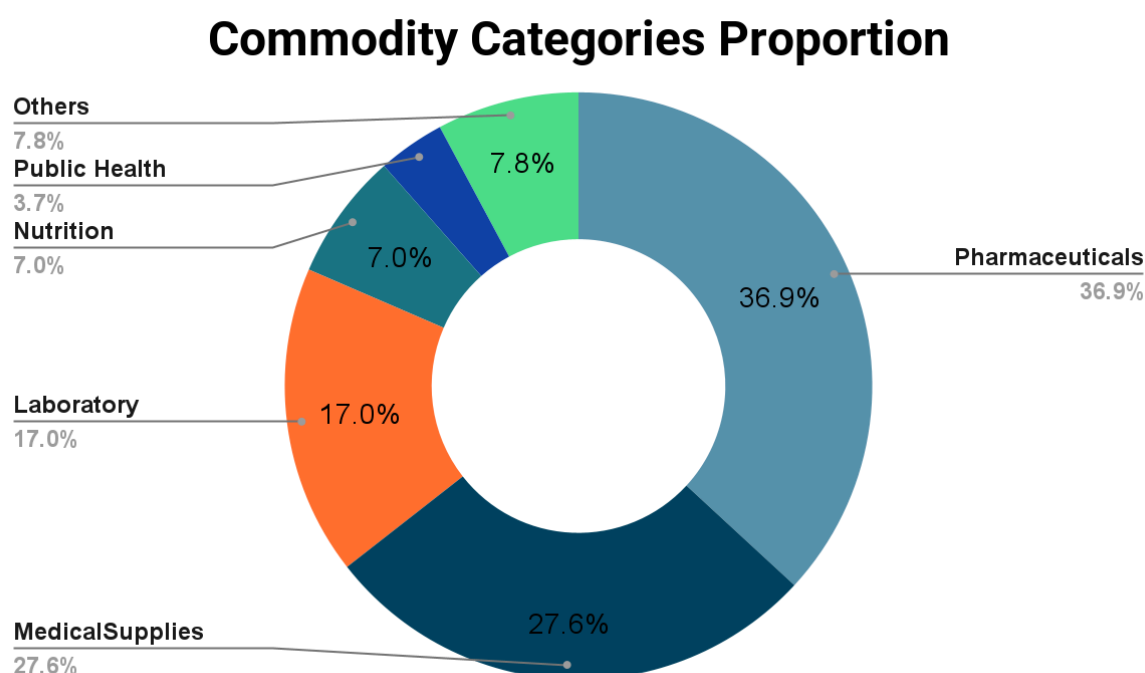
4. QUANTIFICATION RESULTS

The summary results will focus on the HPTs to be funded from the County health budget. The quantification showed a total requirement of **Ksh 2,949,258,525 for year 1 of the forecast (without buffer) for the whole county** and **Ksh 3,686,898,724 including buffer**. These requirements have not been adjusted to remove the stock on hand as procurement will not be undertaken immediately. These adjustments shall be made at the time of procurement. This figure is for the commodities to be procured using the county budget.

4.1 County Requirements by Product Category

Pharmaceuticals constituted the largest share of the budget, accounting for 36.9%, followed by medical supplies at 27.6%, laboratory commodities at 17.0%, nutrition at 7.0% and public health at 3.7%.

Figure 2: Requirement proportions by Sub-county



The "others" category encompasses radiology, dental, eye, and renal. Notably, radiology represents the largest share within this category, making up 7.8% of Nairobi's total requirements. The proportional distribution of each category relative to the overall requirements is illustrated in the table below.

Table 1: Requirements by Product Category

Other Categories	County-funded requirements	Proportion of Total
Dental	52,018,101	1.4%
Radiology	141,548,557	3.8%
Eye	58,720,807	1.6%
Renal	35,927,542	1.0%

4.2 Requirements by Sub-County

In Nairobi County, the four level 5 facilities, **Mama Lucy Kibaki Hospital**, **Pumwani Maternity Hospital**, **Mama Margaret Uhuru Hospital**, **Mbagathi County Hospital** and **Mama Margaret Uhuru Hospital** are hosted in Embakasi West- Embakasi Central, Kamukunji Langata- Kibra and Ruaraka sub-county respectively.

Embakasi West - Embakasi Central Sub-County, which hosts Mama Lucy Kibaki Hospital Had the highest HPT requirements amounting to **Ksh.842,702,358**. Out of this, Mama Lucy Kibaki Hospital had a total of **Ksh. 711,322,164** requirements which constitutes 84% of the sub-county's requirements.

Kamukunji sub-county which hosts Pumwani maternity hospital had total requirements of **Ksh.233,168,144**. Pumwani Maternity Hospital's requirements constitute **Ksh. 146,319,524** which translates to 63% of the sub-county requirements.

Langata- Kibra sub-county which hosts Mbagathi County Hospital had a total requirement of **Ksh.737,801,353**. Mbagathi County Hospital constitutes **Ksh. 499, 008, 044** which is 68% of the sub-county requirements.

Table 2: Category Requirements by Sub-County for Nairobi County (Inclusive of Buffer)

Sub County	Pharmaceuticals	MedicalSupplies	Nutrition	Others	Total
Embakasi West-Embakasi Central	319,223,122	257,938,348	86,771,582	178,769,306	842,702,358
Langata-Kibra	262,238,593	214,983,419	41,167,076	219,412,265	737,801,353
Embakasi North-Kasarani	168,911,851	136,770,090	52,066,710	138,493,442	496,242,093
Dagoretti North-Dagoretti South	120,813,572	98,891,716	15,346,069	65,310,532	300,361,889
Ruaraka-Roysambu	112,370,830	80,965,658	17,995,685	72,792,452	284,124,624
Starehe-Mathare	154,711,450	43,039,488	15,036,120	68,688,580	281,475,638
Kamukunji	58,864,857	91,734,521	10,159,100	72,409,666	233,168,144
Embakasi East-Embakasi South	77,486,035	39,391,638	6,770,878	42,501,686	166,150,236
Westlands	46,411,082	24,531,131	6,449,523	27,690,926	105,082,661
Makadara	37,907,819	28,631,720	6,131,707	31,080,325	103,751,571
County Public Health Requirement				136,038,155	136,038,155
Total	1,358,939,211	1,016,877,728	257,894,449	1,053,187,334	3,686,898,723

The table below shows county requirements by sub counties and product categories inclusive of buffer.

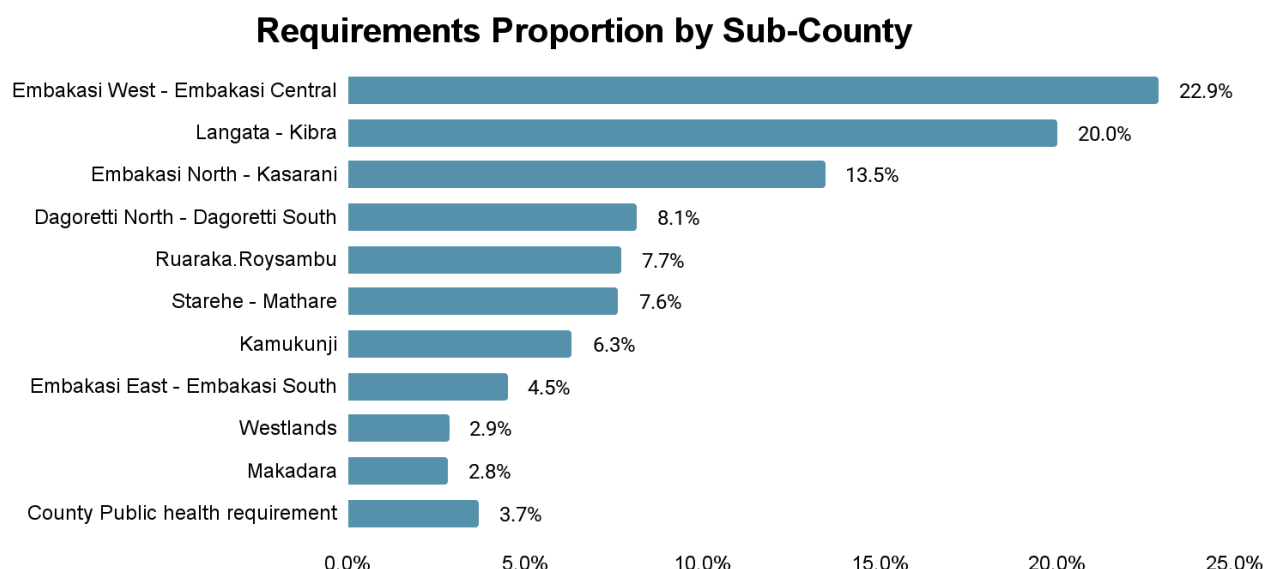
Table 3: Category Requirements by Sub-County for Nairobi County (Without Buffer)

Sub County	Pharmaceuticals	MedicalSupplies	Nutrition	Others	Total
Embakasi West-Embakasi Central	255,379,215	206,015,260	68,870,934	142,140,768	672,406,177
Langata-Kibra	209,792,403	172,019,080	32,629,385	174,210,186	588,651,054
Embakasi North-Kasarani	135,129,098	110,575,808	42,333,914	105,739,884	393,778,704
Dagoretti North-Dagoretti South	96,651,171	79,451,859	12,276,755	48,378,934	236,758,718
Ruaraka-Roysambu	89,897,810	64,095,803	14,081,404	57,996,130	226,071,147
Starehe-Mathare	123,777,882	31,445,777	11,997,551	47,413,308	214,634,517
Kamukunji	47,169,845	73,416,555	8,127,280	57,910,696	186,624,376
County Public Health Requirement				136,038,155	136,038,155
Embakasi East-Embakasi South	61,746,473	30,488,343	5,220,728	32,216,163	129,671,707
Westlands	37,127,444	18,518,652	5,163,016	22,336,262	83,145,373
Makadara	30,326,505	22,392,562	4,417,966	24,341,564	81,478,597
Total	1,086,997,847	808,419,698	205,118,932	848,722,049	2,949,258,525

The "others" category encompasses radiology, dental, eye, and renal. The table also includes an overall county need for county Public health requirements. These requirements include items such as Vaccines, Wash Commodities, Pesticides, and Food Handlers.

The chart below shows the proportion of each sub-county's requirement to the total county needs. Notably, Embakasi West- Embakasi central sub-county has the highest requirements **(22.9%)** in the county. This could be attributed to the fact that the sub-county hosts Mama Lucy Kibaki Hospital. The public health requirements for the county contribute **3.7%** of the total county needs.

Figure 3: Requirement proportions by Sub-county



4.3 Requirements by Level of Care

The Mama Lucy Kibaki Hospital accounted for 19.3% of the county's HPT requirements independently. Sub-county hospitals collectively contributed 15.9%, whereas health centers (level 3) and dispensaries (level 2) constituted 21.89% and 18.32% , respectively. Table 2 outlines a detailed breakdown of contributions from various levels of care.

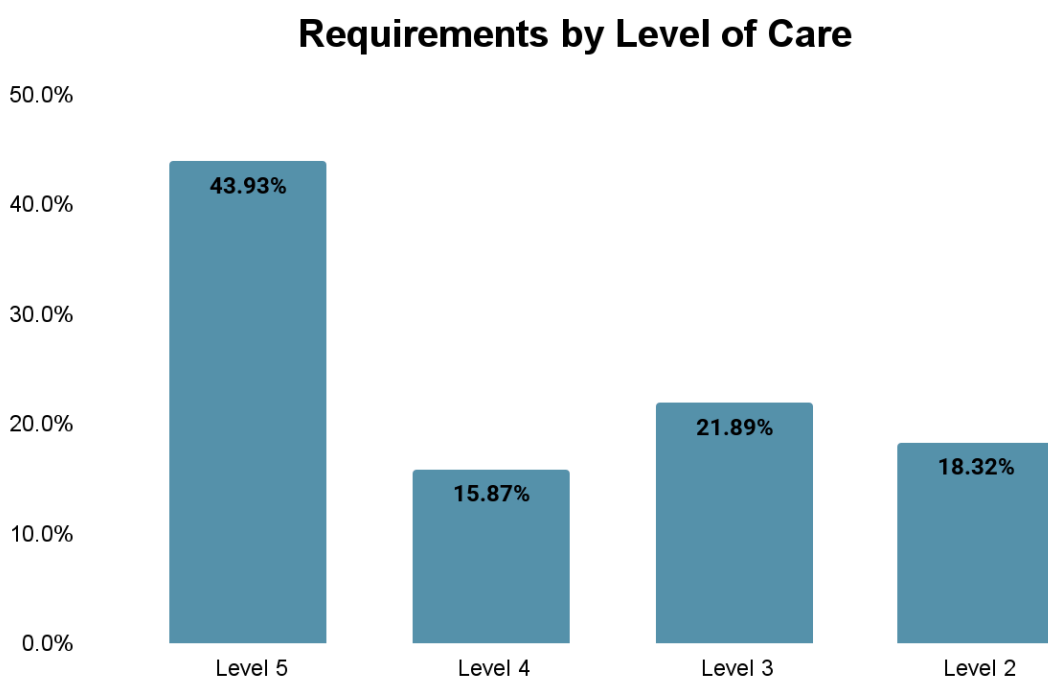
Table 4: Estimated Cost of Commodity Requirements by Level of Care for All Commodities

Product category	Level 2	Level 3	Level 4	Level 5	Total
Dental	3,102,594	18,399,876	18,550,711	12,292,235	52,345,416
Eye			4,672,950	54,047,858	58,720,808
Laboratory	169,001,128	138,866,391	105,834,274	214,852,554	628,554,347
MedicalSupplies	149,609,462	228,756,782	146,644,444	491,867,041	1,016,877,729
Nutrition	51,423,974	50,235,917	38,916,061	117,318,497	257,894,449
Pharmaceuticals	270,575,353	332,219,734	205,664,631	550,479,494	1,358,939,212
Radiology	6,830,000	8,670,886	43,131,623	82,968,558	141,601,067
Renal				35,927,542	35,927,542
Total	650,542,511	777,149,586	563,414,694	1,559,753,779	3,550,860,570

**THIS CLASSIFICATION OF FACILITIES IS BASED ON INFORMATION FROM THE KHIS*

**This classification does not include the county public health requirements amount (Ksh. 136,038,155)*

Figure 4: Total estimated Cost of Commodity Requirements by Level of Care



4.4 Category Proportion Requirements by Level of Care

Looking at category requirements by proportion for each level of care, pharmaceutical products, medical supplies, and laboratory are the top three categories with the highest requirement needs under each of the levels.

Table 5: Proportions Estimated Cost of Commodity Requirements by Level of Care for All Commodities

Product Category	Level 5	Level 4	Level 3	Level 2
Dental	0.8%	3.3%	2.4%	0.5%
Eye	3.5%	0.8%	0.0%	0.0%
Laboratory	13.8%	18.8%	17.9%	26.0%
MedicalSupplies	31.5%	26.0%	29.4%	23.0%
Nutrition	7.5%	6.9%	6.5%	7.9%
Pharmaceuticals	35.3%	36.5%	42.7%	41.6%
Radiology	5.3%	7.7%	1.1%	1.0%
Renal	2.3%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%

Figure 5: Total estimated Cost of Commodity Requirements by Level of Care

Category Requirements as proportions of Level of Care Requirements

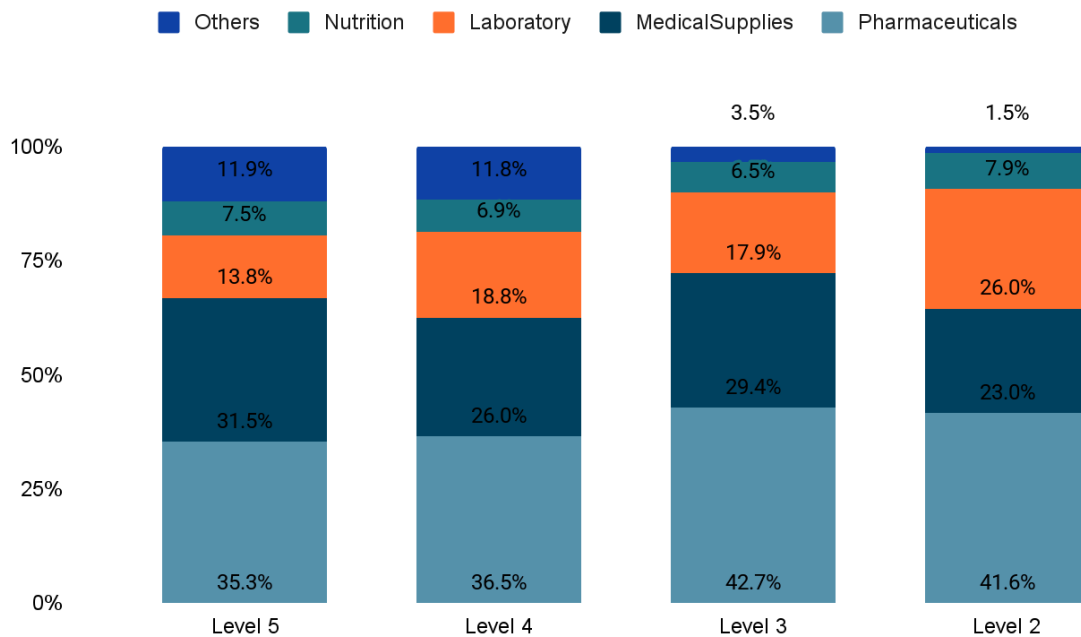
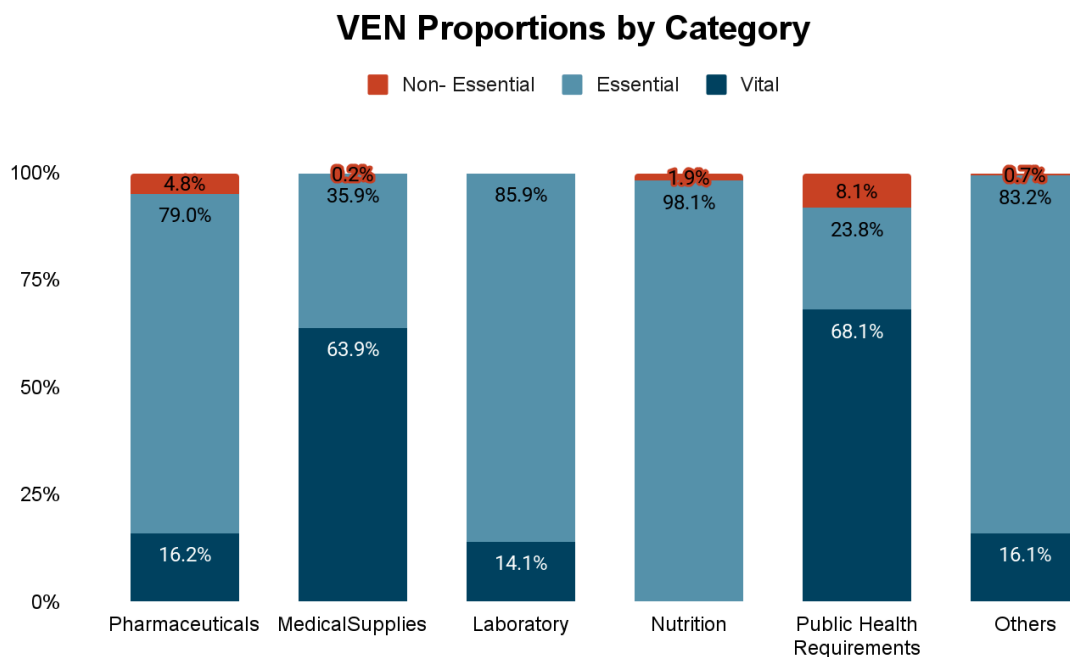


Table 6: Category Requirements by Vital, Essential & Non-essential Proportions

The following table shows the total county requirements by VEN and product categories. Essential products constitute the largest share of the requirements followed by vitals.

VEN Category	Pharmaceuticals	MedicalSupplies	Laboratory	Nutrition	Public Health Requirements	Others
Essential	1,074,105,468 (79.04%)	365,108,760 (35.9%)	539,862,837 (85.89%)	253,017,068 (98.11%)	32,324,605 (23.76%)	240,247,227 (83.25%)
Non - Essential	65,238,250 (4.8%)	2,269,816 (0.22%)	-	4,877,380 (1.89%)	11,032,500 (8.11%)	1,991,913 (0.69%)
Vital	219,595,493 (16.16%)	649,499,152 (63.87%)	88,691,510 (14.11%)	-	92,681,050 (68.13%)	46,355,692 (16.06%)
Total	1,358,939,211 (100%)	1,016,877,729 (100%)	628,554,347 (100%)	257,894,449 (100%)	136,038,155 (100%)	288,594,833 (100%)

Figure 6: VEN proportions by category

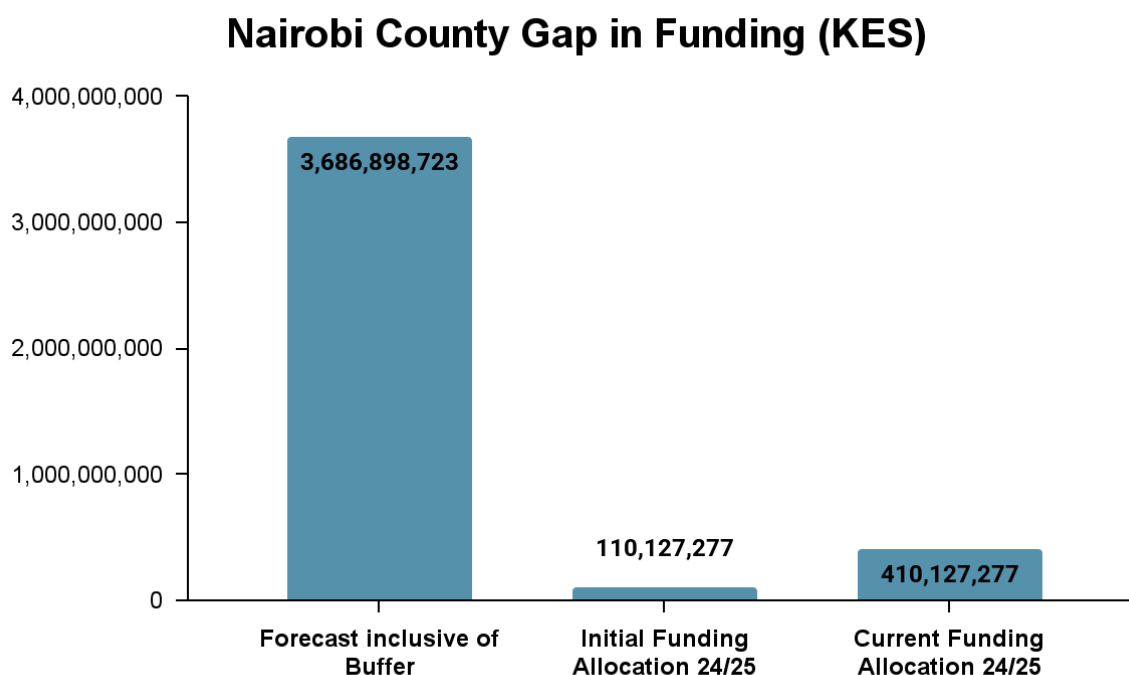


Examining the categorization of the county's Health Promotion and Testing (HPT) requirements into vital, essential, and non-essential, it is evident that essentials constitute the largest proportion. This trend is consistent across all product categories, except for medical supplies, where the vital category surpasses the essential category in terms of allocation.

4.5 County Requirements against County Allocated Funding^{3.2}

Figure 7: County requirements against county allocation FY 24/25

The chart below illustrates the county requirements against the county allocation FY 24/25.



As observed above, there exists a **KES 3,276,771,446** gap between the forecasted county requirements and the FY 2024/2025 funding allocation. This translates to **88.86%** of the county's overall requirements. The substantial difference between the allocated funds and the forecasted requirements underscores a significant shortfall in funding relative to the anticipated needs in Nairobi County.

5. CONCLUSION

The quantification findings are largely consistent with similar exercises conducted in other counties. Nakuru County, with an estimated population of 2.1 million as per the 2019 census, projected its annual county-funded HPTs requirements at approximately Ksh 2.3 billion for 2024–2025, while Kakamega County, with an estimated 2019 population of 1.97 million, estimated its annual requirement for county-funded HPTs at Ksh 1.7 billion for the same financial year. It is also notable that the estimated budget for Nairobi county-funded HPTs is Ksh 2,949,258,525 without buffer and 3,686,898,723 including buffer for FY 2024–2025.

Providing the required commodities will significantly enhance service delivery in public

health facilities, contribute to improved population health, and support development. During the quantification process, the capacity of county and sub-county MOH officials to conduct this process in subsequent years was enhanced. However, technical support will still be needed in the next exercise to solidify the team's skills and expertise.

The Nairobi City County Government health department identified critical gaps in commodity management across all HPTs. These include the following:

1. Poor record keeping, with stock cards not regularly updated or showing incorrect stock balances.
2. Lack of some stock records for donated commodities.
3. Improper use of medical supplies (non-pharmaceuticals).
4. Gaps in capacity building and training: some personnel lack the skills to manage medical products and technologies effectively.
5. Inadequate storage capacity and logistics management systems and poor storage practices.

6. RECOMMENDATIONS

To protect the significant investment the county makes in health products and technologies, several measures are recommended to improve overall management and accountability. These include:

1. Adopting the quantification budget as a guide for budget allocation and advocacy for resources.
2. Strengthening the supply chain systems within the Health Wellness and Nutrition Sector to manage HPTs, including procurement, inventory management, distribution, and handling of expiries.
3. Improve Warehousing and logistics for the County Stores (central and facility level)
4. Introducing inventory management tools for all HPTs and ensuring they are regularly updated.
5. Implementing digital systems for commodity management in facilities to enable better tracking, as manual bin cards are more labor-intensive.
6. Conducting regular market pricing surveys by the County team to develop a comprehensive HPT list, complementing the existing KEMSA list and providing updated standardized price lists.
7. Exploring asset management for various equipment in health facilities to enhance visibility for reagent quantification, considering brand variations.
8. Separating equipment and devices from the medical supplies category to allow better budget allocation across all categories.
9. Standardizing equipment by brand to enable more efficient reagent procurement.
10. Adopting guidelines to categorize the lifespan of different equipment during quantification exercises.
11. Adding a separate budget for equipment maintenance, distinct from procurement.
12. Considering the placement of equipment instead of purchasing, particularly for items

with shorter lifespans.

13. Cleaning up prices and commodities/supplies in the tool across different categories before data collection to improve efficiency.
14. Involving sample facility teams in the quantification process from the planning phase for a smoother transition before data collection.
15. Including pathology HPTs in future quantifications.
16. Reviewing the time allocated to data collection exercises at various facility levels.
17. Implementing on-the-job training (OJT) and mentorship to reduce wastage and improve efficiency and prioritization (including CME rollouts across sub-counties for enhanced awareness).
18. Promoting social and behavioral change to improve accountability, attitude, documentation, and output at different levels.
19. Establishing commodity security committees at various levels to provide continuous oversight.
20. Engaging KEMSA and other entities in the procurement of HPTs to improve efficiency.
21. Leveraging on the Standard Operating Procedures for the management and handling of HPTs at all levels

7. NEXT STEPS

Timeline	Task	Responsible
28 th Oct – 1 st Nov 2024	Finalize the quantification report	County HPTU
11 th Nov – 15 th Nov 2024	Circulate Report Take into consideration the feedback on the comments on the report Rationalize summary costs against the allocated budget.	County HPTU, DHPT
25 th – 29 th Nov 2024	Dissemination of Report	County HPTU, DHPT
November – January 2025	Undertake measures to correct gaps in commodity management identified during the quantification exercise	County HPTU, Subcounty team, Hospital teams

8. APPENDICES

Appendix 1: County Quantification Workshop Agenda

Dates: 14th – 17th October 2024

Venue: Tamarind Tree Hotel

Day 1: Monday, 14th October 2024			
Time	Session Description	Time	Facilitator
8:30 am - 9:00 am	Registration	30 mins	Adijah
9:00 am - 9:45 am	Introduction - Icebreaker - Goal and workshop objectives - Norms - Logistics	45 mins	Phelisha
9:45 am - 9:55 am	Opening Remarks	10 mins	County Leadership
9:55 am - 10:00 am	Opening remarks	5 mins	DHPT
10:00 am - 10:50 am	Overview of Quantification Forecasting & Supply Planning steps	50 mins	Johnson
10:50 am - 11:10 am	Tea Break	20 mins	
11:10 am - 11:50 am	Overview of Quantification Assumptions and Decision-Making for Forecasting	40 mins	Daniel
11:50 am - 1:20 pm	Review of health facility data collection process, issues, and learnings - Presentation by Sub-County Teams - Plenary	120 mins	Victoria
1:20 pm - 2:20 pm	Lunch Break	60 mins	
2:20 pm - 2:50 pm	Introduction to Facility Data Validation	30 mins	Victoria
2:50 pm - 4:50 pm	Group work – Validation of facility data by Sub-County teams	120 mins	Victoria/Johnson/Phelisha/George/Adijah/Daniel
4:50 pm - 5:00 pm	Reflection on the day and looking ahead to Day 2	10 mins	Johnson

Day 2: Tuesday, 15th October 2024

Time	Session Description	Time	Facilitator
8:30 am - 8:45 am	Recap	15 mins	Rapporteur
8:45 am - 10:15 am	Group work – Validation of facility data by Sub-County teams	90 mins	Victoria/Johnson/Ph elisha/George/Adijah
10:15 am - 10:35 am	Tea Break	20 mins	
10:35 am - 1:00 pm	Group work – Validation of facility data by Sub-County teams	145 mins	Victoria/Johnson/Ph nelisha/George/Adijah
1:00 pm - 2:00 pm	Lunch Break	60 mins	
2:00 pm - 3:30 pm	Group work – Validation of facility data by Sub-County teams	90 mins	Victoria/Johnson/Ph elisha/George/Adijah
3:30 pm - 4:45 pm	Presentation and validation of cleaned data by Sub-County teams.	75 mins	Sub County Reps
4:45 pm - 5:00 pm	Reflection on the day and looking ahead to Day 3	15 mins	Victoria

Day 3: Wednesday, 16th October 2024

Time	Session Description	Time	Facilitator
8:30 am - 8.45 am	Recap	15 mins	Rapporteur
8.45 am - 9.30 am	Presentation and validation of cleaned data by Sub-County teams.	45 mins	Sub County Reps
10:15 am - 11:15 am	Use of Technology in Forecasting • Overview of Automated tool • Extrapolation • Aggregation - Sub-County and county	60 mins	George
11:15 am - 11:35 am	Tea Break	20 mins	
11:35 am - 12.20 pm	KEMSA Presentation	45 mins	KEMSA

12:20 am - 1:30 pm	Presentation of quantification outputs • Sub Counties • County	70 mins	George
1:30 pm - 2:30 pm	Lunch Break	60 mins	
2:30 pm - 4:00 pm	Presentation of quantification outputs • Sub Counties • County	90 mins	George
4:00 pm - 4:55 pm	Consensus on quantification outputs	55 mins	Johnson
4:55 pm - 5:00 pm	Reflection on the day and looking ahead to Day 4	5 mins	Daniel

Day 4: Thursday, 17th October 2024			
Time	Session Description	Time	Facilitator
8:30 am - 8:45 am	Recap	15 mins	Rapporteur
8:45 am - 9:00 am	Partner Presentation	15 mins	USAID Fahari ya Jamii
9:00 am - 9:15 am	Partner Presentation	15 mins	CIHEB - CONNECT
9:15 am - 9:30 am	Partner Presentation	15 mins	Thinkwell
9:30 am - 10:30 am	DHPT	60 mins	DHPT
10:30 am - 10:50 am	Tea Break	20 mins	
10:50 am - 11:20 am	Introduction to Quantification Report Writing	30 mins	Daniel
11:20 am - 1:20 pm	Group work-Report writing	120 mins	Daniel
1: 20 pm - 2:20 pm	Lunch Break	60 mins	
2:20 pm - 3:20 pm	Group presentations on the draft report	60 mins	Group Leads
3:20 pm - 4:05 pm	Lessons learned, recommendations, and next	45 mins	Johnson

	steps		
4:05 pm - 4:20 pm	Closing remarks	15 mins	Partners / County



Appendix 2: County Quantification Workshop Participants List

Name	Gender	Designation	Affiliation
1. IRENE MUCHOKI	F	CCO-MS	NCCG - CHO
2. IBRAHIM OTIENO	M	CCOHF	NCCG
3. NORAH MAORE	F	DHPT	NCCG - CHO
4. FAITH NDETO	F	DCP	NCCG - CHO
5. FLORENCE ISANDA	F	PA-CCO	NCCG - CHO
6. JAMES MUNGA	M	ADMIN HAO	NCCG - CHO
7. PATRICIA CHIURI	F	OHS	NCCG - CHO
8. MONICA BOR	F	CNO	NCCG - CHO
9. CAROLINE SOI	F	CCNO	NCCG - CHO
10. LINCOLN KABANYA	M	CRO	NCCG - CHO
11. NAHASHON MAREBE	M	CMLT	NCCG - CHO
12. ISAAC MUTUA	M	COUNTY RADIOGRAPHER	NCCG - CHO
13. TOM CHRISTOPHER	M	CPT	NCCG/CHO
14. JAMLICK KARUMBI	M	SDCP	MOH-DHPT
15. SARAH MWANGI	F	PHARMACIST	MOH-DHPT
16. IDAH PAM	F	SMLT	MOH-DHPT
17. GLADYS KIOKO	F	SC PHARMACIST	NCCG - EMBAKASI WEST

Name	Gender	Designation	Affiliation
18. CATHERINE MAKAU	F	SCP	NCCG - STAREHE
19. IMMACULATE MUTEVU	F	SCP	NCCG - EMBAKASI EAST
20. BEATRICE KAMAU	F	SCP	NCCG - MAKADARA
21. PHYLES MUSEMBI	F	SCP	NCCG - LANGATA
22. DIANA NYABUTI	F	SCP	NCCG - KASARANI
23. ISABEL DOLA	F	SCP	NCCG - KAMUKUNJI
24. BRENDA MOGAKA	F	SCP	NCCG - RUARAKA
25. LEAH WANJALA	F	SCP	NCCG - WESTLANDS
26. JOSEPHINE NGURI	F	SCP	NCCG - DAGORETTI
27. JACOB TOROITICH	M	SCMLC	NCCG - EMBAKASI EAST
28. ESTHER GITHINJI	F	NO	NCCG - LANGATA
29. MARGARET WANJIKU	F	SCMLT	NCCG - STAREHE
30. PHILIP MIBEI	M	SCPHN	NCCG - EMBAKASI EAST
31. ESTHER ADOYO	F	SMLO	NCCG - LANGATA
32. BETTY LESSONET	F	NO	NCCG - MBAGATHI
33. NEEMA NDEGE	F	SCMLT	NCCG - MAKADARA
34. JARED KOMBO	M	SCPHN	NCCG - MAKADARA

Name	Gender	Designation	Affiliation
35. CAROLINE CHEPKWONY	F	NO	NCCG - KASARANI
36. ENID MUMO	F	MLO	NCCG - DANDORA II
37. RICHARD MBITHI	M	PHARMACIST	NCCG - KARIOBANGI
38. DIANA MURITHI	F	SCNO	NCCG - KASARANI
39. JACINTA WAMBUA	F	SCPHN	NCCG - KAMUKUNJI
40. DENIS MUSYIMI	M	PHARMACIST	NCCG - KAMUKUNJI
41. DANIEL KIPCHIRCHIR	M	SCPHN	NCCG - STAREHE
42. GERALD MWANIKI	M	NURSE	NCCG - RUARAKA
43. ROSEMARY RIUNGU	F	SCMLT	NCCG - RUARAKA
44. ALICE SHIUNDU	F	SCPHN	NCCG - DAGORETTI
45. SUSAN MWANGI	F	PHARMACY MENTOR	FYJ-USAID NAIROBI
46. ANDERSON MUGENDI	M	SCMLT	NCCG - WESTLANDS
47. PETER MUTURI	M	SC EPI	NCCG - WESTLANDS
48. ERASTO GICHANA	M	SCMLT	NCCG - KAMUKUNJI
49. PETER KIMANI	M	MLT	NCCG - PUMWANI
50. SERAH GATHU	F	CLINICAL PHARM	NCCG - MLKH
51. FATIHIYA SWALEH	F	PMLT	NCCG - MLKH

Name	Gender	Designation	Affiliation
52. BEATRICE OYUGA	F	DNSM	NCCG - MLKH
53. ANNE KAWIRA	F	SCPHN	NCCG - EMBAKASI WEST
54. CHRISTABEL NGULI	F	MLT	NCCG - EMBAKASI WEST
55. MARY MWAI	F	NO	NCCG - PUMWANI
56. ISABELLA MUGADA	F	CSMO	KEMSA
56. JOAN ONDIRO	F	MLO	NCCG - DAGORETTI
57. SHEENAL DAVDRA	F	PHARMACIST	NCCG - MBAGATHI
58. IMMACULATE WANDAKA	F	PHARMACIST	NCCG - PUMWANI
59. LELETI SHIHUNDU	F	MLT	NCCG - MBAGATHI
60. VERONICA NJAMBI	F	P.A	THINKWELL
60. JOHNSON ANYONA	M	ADVISOR SC	inSupply Health
61. PHELISHA ADHIAMBO	F	SCA	inSupply Health
62. VICTORIA KAMAU	F	SCA	inSupply Health
63. GEORGE MWANGI	M	ASSOCIATE	inSupply Health
64. DANIEL KINYANUI	M	SCA	inSupply Health
65. ADIJAH ANWAR	F	SCA	inSupply Health

Appendix 3: List of Health Facilities Sampled for Data Collection

Sub-County	Organization unit	MFL Code	Total Workload in August 2024
Dagoretti North SC	1. Riruta Health Centre	13165	80,139
Dagoretti North SC	2. Green park dispensary	26925	2535
Dagoretti South SC	3. Waithaka Health Center	13249	60,832
Dagoretti South SC	4. Mutuini Sub-District Hospital	13105	65,470
Dagoretti South SC	5. Chandaria Health Center	12893	50666
Dagoretti south SC	6. Gatina dispensary	27196	47,080
Embakasi Central SC	7. Mama Lucy Kibaki Hospital (Embakasi)	17411	515,360
Embakasi Central SC	8. Kayole II Sub-County Hospital	13016	178,215
Embakasi Central SC	9. Kayole I Health Centre	13015	127,014
Embakasi East SC	10. Tassia Hospital	27815	42,512
Embakasi East SC	11. Mihang'o Community Dispensary	23373	27,943
Embakasi East SC	12. Kayole Soweto dispensary	27276	41,063
Embakasi East SC	13. Njenga Hospital	28373	53441
Embakasi North SC	14. Dandora II Health Centre	12912	73,334
Embakasi North SC	15. Ushirika Dispensary	26913	43196
Embakasi South SC	16. Kware Dispensary	23414	32,997
Embakasi South SC	17. Mukuru Health Centre	18463	88,087
Embakasi West SC	18. Umoja Health Center	13240	89,234
Embakasi West SC	19. Mowlem Dispensary	24272	11,573

Kamukunji SC	20. Pumwani Maternity Hospital	13156	28,713
Kamukunji SC	21. Shauri Moyo Dispensary	13184	8,300
Kamukunji SC	22. Pumwani Majengo Dispensary	13155	37,692
Kamukunji SC	23. Biafra Lions Clinic	12883	17,899
Kamukunji SC	24. Eastleigh Health Centre	12930	40,127
Kasarani SC	25. Ruai Health Centre	13171	21,275
Kasarani SC	26. Maji Mazuri Health Dispensary	26018	37,589
Kasarani SC	27. Njiru Hospital	13126	88,456
Kibra SC	28. Kibera DO Dispensary	13029	29,235
Kibra SC	29. Mbagathi District Hospital	13080	387,148
Kibra SC	30. Kibera Community Health Centre	13028	46,529
Kibra SC	31. Kianda 42 Hospital	20621	46,343
Langata SC	32. Nairobi West Men Prison Dispensary	13116	8,687
Langata SC	33. Kibera South Health Center	13030	14,820
Langata SC	34. Langata Sub-County Hospital	13041	47,240
Makadara SC	35. Kaloleni Dispensary	12998	19,953
Makadara SC	36. Lunga Lunga Hospital	13053	53,680
Makadara SC	37. Makadara Hospital	13056	74,740
Makadara SC	38. Bahati Hospital	12879	57,660
Makadara SC	39. Hono dispensary	12969	2,124
Makadara SC	40. Jericho Health Centre	12988	66,290

Roysambu SC	41. Kahawa West Health Centre	12997	83,091
Ruaraka SC	42. Zimmerman Pickens dispensary	28537	23,278
Ruaraka SC	43. Marurui Health Centre	13071	44,255
Ruaraka SC	44. Ngomongo dispensary	28552	35,827
Ruaraka SC	45. Mathare North Hospital	13077	88,030
Ruaraka SC	46. BabaDogo Health Centre	12876	100,502
Starehe SC	47. Nairobi South dispensary	13113	18,743
Starehe SC	48. Ngara Health Centre	13122	45,572
Starehe SC	49. Mathare Police depot dispensary	13078	5,068
Starehe SC	50. Special Treatment Clinic	13193	90,272
Westlands SC	51. Kangemi Health Centre	13001	70,108
Westlands SC	52. Westlands Hospital	13258	56,240
Westlands SC	53. Mji wa Huruma Dispensary	13093	14,837
Westlands SC	54. Karura Health Centre	13009	17,989
Westlands SC	55. Gicagi dispensary	27186	33,747
Embakasi North SC	56. Mama Margaret Uhuru Hospital	28885	

Appendix 4: Three-Year Forecast

Table 7: Three-Year Estimated Cost of Commodity Requirements (inclusive of Buffer)

Product Category	FY2024/2025	FY2025/2026	FY2026/2027
Pharmaceuticals	1,358,939,211	1,410,239,957	1,463,592,733
MedicalSupplies	1,016,877,729	1,055,028,293	1,094,704,879
Laboratory	628,554,347	652,917,310	678,254,790
Nutrition	257,894,449	267,362,465	277,209,202
Dental	52,345,416	54,392,948	56,522,382
Radiology	141,601,067	146,814,948	152,237,385
Eye	58,720,807	60,768,375	62,897,845
Renal	35,927,542	37,246,533	38,618,285
Public Health	136,038,155	141,479,681	147,138,868
Total	3,686,898,723	3,826,250,510	3,971,176,368

**** Increment of 4% per annum projected for year 2 and year 3**

Appendix 5: Detailed list of Requirements by Ward

Table 8: Nairobi County Requirements by Ward (Inclusive of buffer)

Ward	Pharmaceuticals	MedicalSupplies	Laboratory	Nutrition	Dental	Radiology	Eye	Renal	Total
Airbase Ward	7,111,224	6,372,963	5,607,779	1,063,535	0	0	0	0	20,155,501
Babandogo Ward	15,356,066	12,435,937	9,352,700	3,946,892	1,972,711	625,000	0	0	43,689,306
Clay City Ward	2,130,332	1,199,681	1,253,998	860,673	0	0	0	0	5,444,684
Dandora Area I Ward	17,956,526	14,363,800	16,306,924	5,113,982	3,279,685	1,185,900	0	0	58,206,817

Dandora Area III Ward	6,489,384	6,289,036	5,089,070	1,253,202	1,969,637	712,200	0	0	21,802,529
Dandora Area Iv Ward	3,915,430	2,130,921	4,288,904	1,657,548	0	0	0	0	11,992,803
Eastleigh South Ward	5,937,164	5,349,822	3,347,499	1,163,500	0	0	0	0	15,797,985
Embakasi Ward	22,639,985	12,308,708	6,851,350	1,459,657	0	6,897,089	0	0	50,156,789
Gatina Ward	7,612,593	2,920,749	3,274,508	1,225,714	0	0	0	0	15,033,564
Githurai Ward	14,438,166	9,491,591	7,275,844	1,754,847	0	202,870	0	0	33,163,318
Harambee Ward	8,565,111	4,263,326	4,548,457	1,016,595	0	0	0	0	18,393,489
Hospital Ward	3,345,860	1,145,468	7,572,601	0	0	0	0	0	12,063,929
Imara Daima Ward	12,717,143	7,016,982	4,968,929	1,015,939	0	641,250	0	0	26,360,243
Kahawa Ward	19,642,762	12,913,071	9,898,603	2,387,425	0	276,000	0	0	45,117,861
Kahawa West Ward	18,888,408	12,417,162	9,518,460	2,295,739	0	265,401	0	0	43,385,170
Kangemi Ward	15,091,696	6,448,926	5,127,924	2,477,969	0	912,500	0	0	30,059,015
Karen Ward	3,968,221	3,022,016	3,015,544	1,537,853	0	0	0	0	11,543,634
Kariobangi North Ward	87,904,215	72,299,646	29,908,983	24,464,562	3,254,555	12,012,453	7,531,627	2,952,752	240,328,793
Kariobangi South Ward	5,251,654	4,722,269	4,217,874	2,222,484	0	0	0	0	16,414,281
Karura Ward	7,457,506	4,746,307	2,535,250	1,091,455	0	0	0	0	15,830,518
Kasarani Ward	15,896,956	12,716,307	14,436,559	4,527,421	2,903,513	1,049,880	0	0	51,530,636
Kawangware Ward	14,586,284	10,112,984	7,735,483	4,518,407	1,972,711	7,835,455	0	0	46,761,324
Kayole North Ward	10,809,660	12,342,831	5,621,407	2,910,452	0	0	0	0	31,684,350

Kayole South Ward	24,663,139	12,845,720	16,694,607	4,303,986	285,403	543,750	0	0	59,336,605
Kiamaiko Ward	5,932,175	2,997,048	2,934,399	3,807,566	0	0	0	0	15,671,188
Kilimani Ward	19,371,882	16,897,002	5,601,718	0	0	0	0	0	41,870,602
Kitisuru Ward	6,058,612	3,305,715	1,775,333	913,781	0	0	0	0	12,053,441
Komarock Ward	267,644,281	221,040,024	68,224,937	74,226,932	4,052,502	39,414,518	26,377,680	10,341,290	711,322,164
Korogocho Ward	10,183,692	8,089,192	5,178,990	1,940,805	610,824	0	0	0	26,003,503
Kwa Njenga Ward	13,001,262	6,107,862	4,842,799	1,306,755	0	6,665,250	0	0	31,923,928
Kwa Reuben Ward	7,415,015	2,995,076	2,378,704	561,928	0	0	0	0	13,350,723
Kware Ward	1,799,495	1,072,130	38,072	574,178	0	0	0	0	3,483,875
Laini Saba Ward	11,638,217	6,527,345	6,017,354	2,653,963	0	0	0	0	26,836,879
Landimawe Ward	51,153,218	14,812,244	18,625,232	3,804,922	1,538,861	246,877	0	0	90,181,354
Lindi Ward	1,396,224	1,206,917	819,102	417,186	184,080	0	0	0	4,023,509
Lower Savannah Ward	3,844,947	2,932,210	3,682,351	621,730	0	0	0	0	11,081,238
Makina Ward	7,081,478	5,538,843	5,135,590	2,618,479	187,025	0	0	0	20,561,415
Makongeni Ward	3,526,383	3,019,048	2,949,999	576,695	0	0	0	0	10,072,125
Maringo/Ham za Ward	21,275,765	17,196,084	9,630,047	3,666,837	5,453,834	4,125,000	0	0	61,347,567
Mathare North Ward	18,234,931	11,967,156	10,230,021	2,570,500	1,972,711	5,677,500	0	0	50,652,819
Mihango Ward	16,068,188	6,958,669	5,376,147	1,230,691	0	159,744	0	0	29,793,439

Mountain View Ward	4,969,414	3,453,769	3,426,275	807,328	0	6,830,000	0	0	19,486,786
Mowlem Ward	1,302,601	1,091,646	514,471	388,941	0	0	0	0	3,297,659
Mugumo-ini Ward	30,893,784	22,552,499	16,951,311	6,565,989	2,476,563	2,163,750	0	0	81,603,896
Mutu-ini Ward	31,257,324	28,476,889	14,626,496	3,292,410	1,237,836	2,717,813	4,672,950	0	86,281,718
Mwiki Ward	3,735,354	2,050,285	1,800,788	1,297,593	0	0	0	0	8,884,020
Nairobi Central Ward	26,808,072	3,480,527	10,807,809	567,682	0	0	0	0	41,664,090
Nairobi South Ward	6,279,409	2,610,179	9,212,377	1,814,427	0	0	0	0	19,916,392
Nairobi West Ward	3,526,120	2,893,689	2,328,604	1,186,753	267,062	0	0	0	10,202,228
Ngara Ward	34,254,539	13,199,698	1,692,546	2,848,129	2,025,893	325,011	0	0	54,345,816
Ngei Ward	19,342,519	1,760,279	1,224,983	484,421	0	0	0	0	22,812,202
Njiru Ward	17,995,857	16,291,299	11,356,193	9,001,899	1,972,711	2,683,750	0	0	59,301,709
Nyayo Highrise Ward	6,480,518	5,564,254	3,865,173	1,968,795	806,203	0	0	0	18,684,943
Pangani Ward	2,662,573	1,345,183	1,317,064	1,708,973	0	0	0	0	7,033,793
Parklands/Highridge Ward	12,833,854	6,576,414	4,461,061	1,158,990	1,710,083	912,500	0	0	27,652,902
Pumwani Ward	45,816,469	80,011,736	56,462,861	7,932,065	2,726,917	4,261,250	3,360	0	197,214,658
Roysambu Ward	5,708,650	5,072,929	3,071,410	1,334,265	560,621	0	0	0	15,747,875
Ruai Ward	12,887,796	9,429,116	10,210,187	3,889,829	1,713,565	619,607	0	0	38,750,100
Sarang'ombe Ward	14,821,515	14,079,585	9,485,244	3,167,976	2,417,904	3,600,000	0	0	47,572,224
South C Ward	876,656	757,795	514,295	261,941	115,580	0	0	0	2,526,267

Starehe-Mathare	4,116,945	1,409,453	9,317,780	0	0	0	0	0	14,844,178
Umoja I Ward	9,551,787	5,895,858	2,480,867	2,718,787	0	0	0	0	20,647,299
Utalii Ward	6,645,331	5,747,820	4,088,969	1,182,721	0	0	0	0	17,664,841
Uthiru/Ruthimitu Ward	26,016,201	15,864,210	7,622,072	4,556,538	0	0	0	0	54,059,021
Viwandani Ward	4,540,561	4,153,262	4,372,988	871,580	0	0	0	0	13,938,391
Waithaka Ward	21,969,288	24,619,882	8,013,491	1,753,000	0	0	0	0	56,355,661
Woodley/Kenyatta Golf Course Ward	181,555,860	152,840,476	83,578,014	20,788,141	4,676,425	28,038,750	20,135,190	22,633,500	514,246,356
Zimmerman Ward	3,272,824	2,830,800	2,013,816	582,490	0	0	0	0	8,699,930
Ziwani/Kariokor Ward	816,139	279,409	1,847,147	0	0	0	0	0	2,942,695
Public Health Requirements	0	0	0	0	0	0	0	0	136,038,155
Total	1,358,939,210	1,016,877,729	628,554,344	257,894,448	52,345,415	141,601,068	58,720,807	35,927,542	3,686,898,723

Appendix 6: Detailed List of Requirements by Health Facility

Table 9: Nairobi County List of Requirements by Health Facility

Facility Name	Pharmaceuticals	MedicalSupplies	Laboratory	Nutrition	Radiology	Eye	Renal	Dental
Mama Lucy Kibaki Hospital (Embakasi)	267,644,281	221,040,024	68,224,937	74,226,932	39,414,518	26,377,680	10,341,290	4,052,502
Mbagathi County Referral Hospital	176,294,723	148,583,613	80,001,449	18,965,115	28,038,750	20,135,190	22,633,500	4,355,704
Mama Margaret Uhuru Hospital	76,420,558	63,113,629	19,480,288	21,194,040	11,254,040	7,531,627	2,952,752	1,157,112
Pumwani Maternity Hospital	30,119,932	59,129,775	47,145,880	2,932,410	4,261,250	3,360	0	2,726,917
Dagoretti Sub-County Hospital Mutuini	31,257,324	28,476,889	14,626,496	3,292,410	2,717,813	4,672,950	0	1,237,836
Ngara Health Centre (City Council of Nairobi)	28,720,181	11,067,080	1,419,089	2,387,969	272,500	0	0	1,698,578
Ngaira Rhodes Dispensary	26,019,631	10,026,446	1,285,653	2,163,429	246,877	0	0	1,538,861
Kayole II Sub County Hospital	24,663,139	12,845,720	16,694,607	4,303,986	543,750	0	0	285,403
Special Treatment Clinic	22,667,046	2,062,830	1,435,529	567,682	0	0	0	0
Kahawa West Health Centre	19,642,762	12,913,071	9,898,603	2,387,425	276,000	0	0	0
Huruma Lions Health Centre	19,342,519	1,760,279	1,224,983	484,421	0	0	0	0
Kamiti Prison Hospital	18,888,408	12,417,162	9,518,460	2,295,739	265,401	0	0	0
Chandaria Health Centre	18,608,310	5,369,131	4,252,507	3,260,865	0	0	0	0
Mathare North Hospital	18,234,931	11,967,156	10,230,021	2,570,500	5,677,500	0	0	1,972,711
Njiru Hospital	17,995,857	16,291,299	11,356,193	9,001,899	2,683,750	0	0	1,972,711
Dandora I Health Centre	17,956,526	14,363,800	16,306,924	5,113,982	1,185,900	0	0	3,279,685
Pumwani Majengo Dispensary	9,956,068	16,787,287	5,790,197	1,670,250	0	0	0	0

Nairobi Remand Prison Health Centre	16,434,814	1,495,661	1,040,835	411,600	0	0	0	0
Kasarani Health Centre	15,896,956	12,716,307	14,436,559	4,527,421	1,049,880	0	0	2,903,513
Tassia Kwa Ndege Hospital	15,404,182	8,307,782	4,094,669	835,953	6,541,855	0	0	0
Kangemi Health Centre	15,091,696	6,448,926	5,127,924	2,477,969	912,500	0	0	0
Riruta Hospital	14,586,284	10,112,984	7,735,483	4,518,407	7,835,455	0	0	1,972,711
Githurai 44 Health Centre	14,438,166	9,491,591	7,275,844	1,754,847	202,870	0	0	0
Waithaka Health Centre	10,022,615	14,199,472	4,558,902	1,753,000	0	0	0	0
Langata Subcounty Hospital (Mugumoini)	14,016,488	9,847,305	8,114,339	3,098,537	1,203,750	0	0	0
Njenga Hospital	13,001,262	6,107,862	4,842,799	1,306,755	6,665,250	0	0	0
Westlands Hospital	12,833,854	6,576,414	4,461,061	1,158,990	912,500	0	0	1,710,083
Mukuru Health Centre	12,717,143	7,016,982	4,968,929	1,015,939	641,250	0	0	0
Kayole I Health Centre	10,809,660	12,342,831	5,621,407	2,910,452	0	0	0	0
Babadogo Health Centre	12,060,043	9,585,072	7,324,610	3,360,273	625,000	0	0	1,972,711
Kabiria Beyond zero Clinic	11,946,673	10,420,410	3,454,589	0	0	0	0	0
Kibera Community Health Centre (Amref)	11,638,217	6,527,345	6,017,354	2,653,963	0	0	0	0
Kariobangi Health Centre	11,483,657	9,186,017	10,428,694	3,270,522	758,413	0	0	2,097,443
Kianda 42 Hospital	11,444,781	11,160,686	7,504,265	2,159,022	3,600,000	0	0	1,972,711
Kibera South Health Centre	10,985,901	7,612,583	5,380,753	1,707,127	960,000	0	0	1,699,833
Makadara Hospital	10,668,793	7,561,779	3,905,689	1,502,432	1,125,000	0	0	2,726,917
Uthiru Muthua Health Centre	7,407,891	10,495,079	3,369,565	1,295,673	0	0	0	0
Rhodes Chest Clinic	4,391,150	1,503,328	9,938,379	0	0	0	0	0
Umoja Health Centre	9,551,787	5,895,858	2,480,867	2,718,787	0	0	0	0
Bahati Hospital	9,497,693	7,803,496	4,944,042	1,806,897	3,000,000	0	0	2,726,917

Ngundu Health Center	9,381,900	7,504,778	8,520,019	2671946	619607	0	0	1713565
Inoculation Center	4,116,945	1,409,453	9,317,780	0	0	0	0	0
Lady Northey Dispensary	8,863,180	7,730,853	2,562,943	0	0	0	0	0
Jericho Health Centre	8,357,561	3,920,775	4,402,457	949,704	0	0	0	0
Lagos Road Dispensary	3,611,260	1,236,329	8,173,275	0	0	0	0	0
Gatina Dispensary	7,612,593	2,920,749	3,274,508	1,225,714	0	0	0	0
Reuben Health Centre (GOK)	7,415,015	2,995,076	2,378,704	561,928	0	0	0	0
Mihang'o Community Health Centre	7,182,430	2,901,130	2,304,092	544,302	0	0	0	0
Eastleigh Health Centre	7,111,224	6,372,963	5,607,779	1,063,535	0	0	0	0
Embakasi Health Centre	7,044,930	3,887,205	2,752,643	562,801	355,234	0	0	0
Gichagi Dispensary	4,969,414	3,453,769	3,426,275	807328	6830000	0	0	0
Dandora II Health Centre	6,489,384	6,289,036	5,089,070	1,253,202	712,200	0	0	1,969,637
Silanga (MSF Belgium) Dispensary	6,114,946	5,285,851	3,587,367	1,827,121	0	0	0	806,203
Lower Kabete Dispensary	6,058,612	3,305,715	1,775,333	913,781	0	0	0	0
State House Dispensary(Nairobi)	6,024,976	5,255,247	1,742,227	0	0	0	0	0
Biafra Lions Dispensary	5,937,164	5,349,822	3,347,499	1163500	0	0	0	0
Kiamaiko Dispensary	5,932,175	2,997,048	2,934,399	3,807,566	0	0	0	0
Shauri Moyo Clinic	5,740,469	4,094,674	3,526,784	3,329,405	0	0	0	0
Aptc Health Centre	5,717,745	2,309,514	1,834,227	433,305	0	0	0	0
Korogocho Health Centre	5,625,640	5,013,245	2,980,824	1,347,990	0	0	0	610,824
Ngara Mat Clinic	5,534,358	2,132,618	273,457	460,160	52511	0	0	327,315
South B Police Band Dispensary	2,416,828	827,411	5,469,947	0	0	0	0	0
Marurui Health Centre	5,163,273	4,601,210	2,735,832	1,237,200	0	0	0	560621
Kibera D.O. Dispensary	4,732,163	3,603,799	3,596,081	1,833,912	0	0	0	0

Mji Wa Huruma Dispensary	4,701,445	2,565,214	1,377,647	709,088	0	0	0	0
Upendo Dispensary	2,033,616	696,216	4,602,632	0	0	0	0	0
Ngomongo Dispensary	4,558,052	3,075,947	2,198,166	592,815	0	0	0	0
Lunga Lunga Health Centre	4,343,955	3,828,774	4,234,687	808,216	0	0	0	0
Ushirika Dispensary (Dandora)	3,915,430	2,130,921	4,288,904	1657548	0	0	0	0
Karen Health Centre	3,968,221	3,022,016	3,015,544	1,537,853	0	0	0	0
Kayole Soweto Dispensary	3,844,947	2,932,210	3,682,351	621,730	0	0	0	0
Mwiki Health Centre	3,735,354	2,050,285	1,800,788	1,297,593	0	0	0	0
Ruai Health Centre	3,505,896	1,924,338	1,690,168	1,217,883	0	0	0	0
National Youth Service Hq Dispensary (Ruaraka)	3,362,384	2,908,265	2,068,924	598,430	0	0	0	0
Ruaraka Dispensary	3,296,023	2,850,865	2,028,090	586,619	0	0	0	0
Gsu Hq Dispensary (Ruaraka)	3,282,947	2,839,556	2,020,045	584,292	0	0	0	0
Zimmerman Pickens Dispensary	3,272,824	2,830,800	2,013,816	582,490	0	0	0	0
Kariobangi South Dispensary	2,844,668	2,705,092	3,267,219	1,503,787	0	0	0	0
Langata Women Prison Dispensary	3,266,439	2,823,559	1,916,275	975,999	0	0	0	430652
GSU Training School	3,168,013	1,748,026	1,237,828	253,084	159744	0	0	0
Kaloleni Dispensary	3,023,045	2,188,313	2,595,928	414,475	0	0	0	0
Mathare Police Depot	1,312,244	449,252	2,969,969	0	0	0	0	0
Ministry Of Public Works Dispensary	1,303,958	446,415	2,951,216	0	0	0	0	0
Ngong Road Dispensary	2,828,512	2,154,066	2,149,453	1,096,167	0	0	0	0
Nairobi South Clinic	2,826,871	1,428,189	1,398,335	1,814,427	0	0	0	0
Karura Health Centre	2,756,061	2,181,093	1,157,603	382367	0	0	0	0

Pangani Dispensary	2,662,573	1,345,183	1,317,064	1708973	0	0	0	0
Green Park Dispensary (Railways)	2,517,441	2,195,822	727,962	0	0	0	0	0
Muthurwa Dispensary	1,087,495	372,308	2,461,300	0	0	0	0	0
Jerusalem Dispensary	2,406,986	2,017,177	950,655	718,697	0	0	0	0
Railway Training Institute Dispensary South B	1,035,710	354,579	2,344,096	0	0	0	0	0
Maji Mazuri Dispensary (Clay City)	2,130,332	1,199,681	1,253,998	860673	0	0	0	0
Nairobi West Men's Prison Dispensary	2,025,630	1,750,985	1,188,347	605,250	0	0	0	267,062
State House Dispensary(Arboretum)	1,966,285	1,715,080	568,586	0	0	0	0	0
Loco Dispensary	1,916,170	968,086	947,849	1,229,894	0	0	0	0
Kariokor Clinic	816,139	279,409	1,847,147	0	0	0	0	0
Kware Dispensary	1,799,495	1,072,130	38,072	574,178	0	0	0	0
Raila BZ Community Clinic	1,766,074	1,526,621	1,036,077	527,696	0	0	0	232,842
Soweto West Community Dispensary	1,705,230	1,474,026	1,000,383	509,516	0	0	0	224,820
Gatwekera B Dispensary	1,671,504	1,444,873	980,597	499438	0	0	0	220373
Uhuru Camp Dispensary (O P Admin Police)	1,500,490	1,142,704	1,140,257	581,503	0	0	0	0
Makina Community Dispensary	1,418,556	1,226,221	832,204	423,859	0	0	0	187,025
Lindi Community Dispensary	1,396,224	1,206,917	819,102	417,186	0	0	0	184,080
Gsu Dispensary (Kibera)	1,371,157	1,185,249	804,397	409,696	0	0	0	180,775
Mowlem Health Center	1,302,601	1,091,646	514,471	388,941	0	0	0	0
Nairobi County Beyond Zero Clinic	529,765	181,367	1,199,005	0	0	0	0	0
Woodley Clinic	1,061,467	917,548	622,716	317162	0	0	0	139945

Karanja Road Community Clinic	930,758	708,823	707,305	360,708	0	0	0	0
Jinnah Ave Clinic	876,656	757,795	514,295	261,941	0	0	0	115,580
Dog Unit Dispensary (O P Kenya Police)	858,882	742,430	503,868	256,630	0	0	0	113,236
Mbotela Dispensary	503,338	830,735	354,071	162,220	0	0	0	0
Maringo Clinic	483,013	797,189	339,773	155,670	0	0	0	0
ofafa I Clinic	359,988	594,142	253,232	116,020	0	0	0	0
CID Headquarters Clinic	545,377	471,719	335,578	97,065	0	0	0	0
Bahati MDR Dispensary	266,278	439,478	187,312	85,818	0	0	0	0
Undugu Highrise Dispensary	365,572	278,403	277,806	141,674	0	0	0	0
Hono Dispensary	207,550	342,551	146,000	66,891	0	0	0	0
Sinai Outpatient and Drug Rehabilitation Centre	196,606	324,488	138,301	63,364	0	0	0	0
JKIA Health Centre	190,873	113,721	4,038	60,903	0	0	0	0
TOTAL	1,358,939,207	1,016,877,729	628,554,348	257,894,449	141,601,068	58,720,807	35,927,542	52,345,414

Appendix 7: Group Photo



HPT Quantification Team

