



# Ministry of Health



KENYA SERVICE AVAILABILITY

AND

READINESS ASSESSMENT MAPPING (SARAM) REPORT



September 2013

# KENYA SERVICE AVAILABILITY AND READINESS ASSESSMENT MAPPING



Ministry of  
Health

*A Comprehensive mapping of health  
services, capacity for service provision,  
sector investments and readiness to  
provide services by County*



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## FOREWARD

The Kenya Service Availability and Readiness Assessment Mapping (SARAM) is the first Health Services Census to be conducted in Kenya. It provides information on:

- 1) the status of provision of the defined Kenya Essential Package of Health and related Services (KEPH),
- 2) inputs required for delivery of health services and
- 3) readiness for provision of the KEPH.

Specific information is provided on delivery of the KEPH, availability of human resources for health, infrastructure resources ( physical), on the availability of basic equipment, basic amenities and Assets, essential medicines and medical supplies, diagnostic capacities and on readiness of health facilities to provide basic healthcare interventions relating to Maternal and child health, family planning, child health services, basic and comprehensive emergency care, HIV, Tuberculosis, Malaria and Non-communicable conditions. It also provides evidence on the leadership, governance and management of the health services and the geo-reference for the Mapping of health facilities and management units.

The outputs from this report are useful for defining County and National Government strategic direction in the medium term, transfer of health assets to the counties, and to guide future measuring and tracking of progress in expansion of KEPH services provision and investments as Kenya moves towards Universal Coverage with the Kenya Essential Package for Health (KEPH).

I encourage all stakeholders at national and Counties to use the vital information in this document for strategic planning, priority allocation of health resources, monitoring and evaluation of their interventions, programming and strive to make Kenya a health nation. I would like you to keep in mind that the figures shown here are expected to change with time and together we make some deference. Therefore, we intend to support this initiative and progressively on an annual basis ask all stakeholders both at national and county levels (state and non-state actors) facilities included update this information on SARAM and maintain the database to determine the level of progress in these indicators.

Finally, on behalf of the Ministry of Health, I hereby express our appreciation to the World Health Organization together with the USAID AfyaInfo for providing technical guidance in the process design, execution and analysis, and the WHO and DfID Health Systems program for financing the process.

James Macharia

**Hon. CABINET SECRETARY, MINISTRY OF HEALTH**

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Dr. S. K. Segor

**PRINCIPAL SECRETARY, MINISTRY OF HEALTH**

## Preface

This SARAM report provides the most comprehensive picture of the Health Sector in Kenya to date. Its publication coincides with the period when the Counties are being operationalised, and so is a rich source of information on how they can take advantage of their existing skills and assets to provide health and related services for the population in Kenya.

This report is not intended to be read chapter by chapter, as the information it contains is quite extensive and detailed. It is a Health sector statistical abstract, and so it is recommended the reader identifies the issues they are interested in, then go to the relevant section to look at the information therein.

All the sections of the report follow the same basic pattern: The section commences with an overall Country picture of the area being presented. This overall picture is presented as a Country average, and then disaggregated where feasible by level of care (Community, primary care, County hospital, or National referral), and by ownership (public, private not for profit, or private for profit). The same information is then presented by County, to allow more specific utilization of the information for each County

The report is structured across six sections

- **Section 1 (Introduction)** provides an overview of the Country, and the health sector / health system. This allows the reader to contextualize the information presented
- **Section 2 (Overview of the SARAM)** presents an explanation of the SARAM: What it is, its elements, objectives, and the methods used to derive the information
- **Section 3 (availability of KEPH services)** presents the data on the status of provision of different KEPH services across the Country. This is presented, by the six KEPH objectives. In this section, the reader is able to appreciate which services are currently being provided in which parts of the Country. The information is especially useful for planning scale up of KEPH services by Counties
- **Section 4 (capacity to provide KEPH services)** presents the data on the existing capacity to provide health and related services across the Country. The information covers physical facilities, health workforce, health infrastructure, and health products availability across the Country. The information is particularly useful for planning investments to improve capacity to deliver services
- **Section 5 (readiness to provide health services)** provides data on facility readiness to provide services – which together with availability and functionality define how physical access to health services is determined. The overall readiness of facilities to provide services is presented, followed by facility specific readiness to provide different priority programs: HIV, TB, Malaria, NCD's, NTD's, Child health, immunization, maternal health, and surgical services readiness specifically. In addition, the overall readiness of the sector for health leadership is also presented, focusing on stewardship, governance and partnership readiness.
- **Section 6 (conclusion)** wraps up the report, focusing on implications of the report outputs on service provision
- **Section 7 (County specific SARAM)** is specifically targeted at the Counties, and extracts key information the County needs to know from the preceding sections, into a 2 page County factsheet. All the data presented here is from the other sections of the report.

It is our hope that this information will prove useful to you, and you plan and provide health services in your various capacities

Dr. Francis Kimani, MBChB, MMed (Phys)

**DIRECTOR OF MEDICAL SERVICES and Acting DIRECTOR GENERAL OF HEALTH, MINISTRY OF HEALTH**

## Abbreviations

ACT	- Artemether + Lumefantrine (first line antimalarial drug)
CSOs	- Civil Society Organisations
CSSD	- Central Sterile Supply Department
CT	- Computer Tomography
DfID	- Department for International Development
DHIS	- District Health Information Software
ENT	- Ear Nose and Throat
FBHS	- Faith Based Health Services
FP	- Family Planning
GBV	- Gender Based Violence
HRH	- Human resources for Health
HRH	- Human Resources for Health
HRIS	- Human Resource Information System
ICT	- Information Communication Technology
IUD	- Intra- Uterine Device
KDHS	- Kenya Demographic Health Survey
KEPH	- Kenya Essential Package for Health
KEPI	- Kenya Expanded Programme on Immunisation
KHSSP	- Kenya Health Sector Strategic Plan
KSPA	- Kenya Service Provision Assessment
MCH	- Maternal and Child Health
MFL	- Master Facility List
NCDs	- Non-Communicable Diseases
NGOs	- Non- Governmental Organisations
NHSSP II	- Second National Health Sector Strategic Plan
NTDs	- Neglectable Tropical Diseases
OPD	- Outpatient Department
OPG	-
ORT	- Oral Rehydration Therapy
PETs	- Public Expenditure Tracking Survey
PMTCT	- Prevention Mother to- Child Transmission
SAM	- Service Availability Mapping
SARAM	- Service Availability and Readiness Assessment Mapping
USAID	- United States of America and International Development
VCT	- Voluntary Counselling and Testing
WHO	- World Health Organisation

## Executive summary

## 1.0 Introduction

### 1.1 Geography and Population

Kenya is an East African country situated between 5 degrees North and 5 degrees South latitude and between 24 and 31 degrees East longitude. It borders Ethiopia in the north, Sudan in the northwest, Uganda in the west, the United Republic of Tanzania in the south, Somalia in the northeast and the Indian Ocean to the southeast. It has 400 kilometres of shoreline along the Indian Ocean, with the port city, Mombasa, facilitating trade with other countries. The Republic of Kenya covers an area 582,646 sq km. About 80% of its land is arid or semi-arid and sparsely populated. Kenya has a diverse physical environment, including savannah grasslands and woodlands, tropical rain forests and semi-desert environments. There are two distinct regions: lowlands and highlands. Thus, altitude plays an important role in Kenya's climatic patterns, as well as patterns of human settlement and agricultural activities. Economically, the Kenyan economy is predominantly agricultural (25% of Gross Domestic Product,(GDP) with a strong industrial base (13% of the total GDP).

Based on the 2009 census, the Kenya National Bureau of Statistics population for Kenya was 38,610,097 and now is projected to 41,193, 836 people. Between 1992 and 2004 the life expectancy dropped from 56.8 to 51 years but has been steadily rising to 58.9 years. The population ratio is 1:1.04 with an estimated economically productive population of 51,5% of the total population and 8.2 million households. The country is divided into 47 administrative counties and 290 sub-counties all of which are enshrined in the constitution of Kenya 2010 and the County Government Act 2012 on administrative and governance.

**Table 1: Trends in selected demographic Indicators in Kenya, 1969 – 2009**

Indicator	1969	1979	1989	1999	2009
Population (Millions)	10.9	16.2	23.2	28.7	38.6*
Population density per square Kilometer	19	27	37	49	67.7 <sup>a</sup>
% of Population in Urban areas	9.9	15.1	18.1	19.4	21.0 <sup>a</sup>
Crude birth rate	50	54	48	41.3	34.8 <sup>b</sup>
Crude death rate	17	14	11	11.7	U
Inter-Censual growth rate	3.3	3.8	3.4	2.9	2.8 <sup>a</sup>
Total Fertility reate	7.6	7.8	6.7	5	4.6 <sup>b</sup>
Infant Mortality rate per 1000 live births	119	88	66	77.3	52.0 <sup>b</sup>
Life expectancy at birth	50	54	60	56.6	58.9 <sup>a</sup>

*a Revised projection figures, KDHS results (see later chapters)*  
*\*Housing and population census 2009, u= unknown*  
*Source: CBS, 1970; CBS, 1981; CBS, 1994; CBS, 2002a*

**Source: KDHS 2008-09**

**Table 2: Projected population distributions by County, 2013**

County	Total Population	Estimated Deliveries	Estimated EOC	Estimate live births	Estimated Pregnant Women	Households	Population 15-24y	Population 25-59y	Population female	Population male
Baringo	623,348	24,706	3,337	24,550	24,796	101,304	142,855	200,561	310,099	303,145
Bomet	1,008,485	47,166	6,912	23,540	20,153	195,900	261,165	303,394	506,321	502,026
Bungoma	1,527,632	62,633	5,755	62,633	54,479	275,294	274,016	417,565	794,997	732,761
Busia	824,392	31,376	3,884	31,242	26,550	165,880	180,132	222,760	356,770	344,570
Elgeyo-Marakwet	415,959	17,535	135	16,808	21,880	64,432	90,772	129,235	205,776	201,322
Embu	554,583	15,918	3,335	15,563	11,770	113,496	110,409	180,006	281,717	272,869
Garissa	618,868	23,626	187	22,133	34,589	67,709	165,808	170,764	297,384	321,485
Homa Bay	1,058,610	42,363	4,729	42,231	30,821	214,450	254,381	273,030	547,810	510,806
Isiolo	157,269	7,636	1,202	7,313	9,269	33,111	34,636	39,527	82,205	77,901
Kajiado	788,422	33,283	3,374	30,619	26,168	186,358	119,340	227,152	392,093	383,120
Kakamega	1,714,367	71,784	6,738	62,576	34,428	311,931	303,545	427,099	890,977	823,395
Kericho	850,983	40,725	4,840	40,360	23,495	128,277	152,734	297,755	423,405	427,222
Kiambu	1,651,014	53,366	6,178	57,070	53,366	357,574	399,494	583,218	920,129	880,489
Kilifi	1,244,420	47,954	7,290	47,954	10,508	202,153	275,911	403,898	637,766	606,663
Kirinyaga	569,871	13,055	4,274	13,055	13,055	167,123	102,031	235,712	288,820	281,054
Kisii	1,268,538	46,228	3,336	45,664	32,725	213,807	295,486	375,351	657,526	613,090
Kisumu	1,059,733	40,761	7,951	40,761	56,182	184,423	248,393	289,438	545,895	518,944
Kitui	1,136,087	49,126	7,677	47,604	56,074	188,153	237,579	237,796	557,996	496,081
Kwale	728,880	29,350	5,471	29,316	6,312	136,838	139,384	214,947	374,506	354,379
Laikipia	454,887	21,286	3,390	21,286	29,692	99,810	110,632	180,672	226,191	225,089
Lamu	113,845	3,836	858	3,836		59,475	22,892	37,348	54,372	59,475
Machakos	1,200,556	59,760	7,895	59,598	30,706	282,704	242,288	389,091	642,421	562,565
Makueni	961,155	42,153	6,468	41,810	35,174	126,165	196,140	210,139	499,439	463,996
Mandera	424,044	17,677	1,185	16,214	13,436	56,995	88,286	126,739	216,542	197,697
Marsabit	319,706	12,427	1,229	12,427	19,130	63,564	66,371	85,795	158,747	159,947
Meru	1,197,856	62,303	10,764	61,607	91,877	559,134	335,486	489,237	736,502	711,205
Migori	1,012,113	42,836	4,946	42,165	49,405	161,875	231,769	281,604	516,181	489,830
Mombasa	1,005,892	34,776	8,977	34,776	20,054	280,033	262,771	376,291	486,130	519,772
Muranga	956,823	23,452	60,640	23,424	23,452	50,597	184,931	287,080	491,719	465,108
Nairobi	3,608,362	177,207	22,429	173,682	135,055	907,145	565,560	944,741	1,585,323	1,636,358
Nakuru	1,812,902	76,888	7,090	76,655	89,495	398,146	379,935	619,174	915,102	897,066
Nandi	849,621	40,115	4,906	40,115	23,631	166,907	180,621	282,080	427,970	421,655
Narok	950,057	44,178	6,797	27,401	12,497	189,156	207,378	292,049	472,113	477,946
Nyamira	656,856	24,168	610	23,653	10,554	136,429	153,714	212,763	301,767	279,844
Nyandarua	332,987	7,610	77	7,610	9,788	66,598	61,271	171,489	169,824	163,165
Nyeri	746,694	16,742	2,734	16,742	898	70,971	137,453	303,737	180,975	173,878
Samburu	250,478	10,665	1,882	10,169	3,421	46,756	50,470	76,625	125,264	125,217
Siaya	929,402	37,180	4,860	37,180	29,801	201,318	188,534	254,328	482,262	442,958
Taita Taveta	256,340	7,756	1,929	7,756		64,392	49,894	92,104	124,862	131,486
Tana River	269,164	10,249	2,024	10,249		51,378	52,283	82,081	135,719	133,450
Tharaka Nithi	401,442	18,474	1,926	18,327	18,370	64,206	85,952	144,696	202,301	199,141
Trans-Nzoia	868,593	39,538	6,424	21,833	11,106	152,189	167,717	278,187	434,958	421,081
Turkana	844,386	31,562	4,827	29,377	15,784	149,576	187,353	255,419	420,760	423,634
Uasin Gishu	1,018,651	50,290	10,159	47,921		206,739	220,695	314,845	513,298	502,326
Vihiga	615,897	21,536	4,622	21,207	3,659	129,657	117,534	173,048	313,694	204,096
Wajir	750,933	30,086	3,640	30,086	35,441	112,163	147,055	229,849	374,539	376,394
West Pokot	582,733	27,460	4,384	23,189	33,583	109,080	135,605	167,957	295,541	287,195
Kenya	41,193,836	1,690,801	284,277	1,601,287	1,292,629	8,271,371	8,618,662	12,588,377	20,576,708	19,802,896

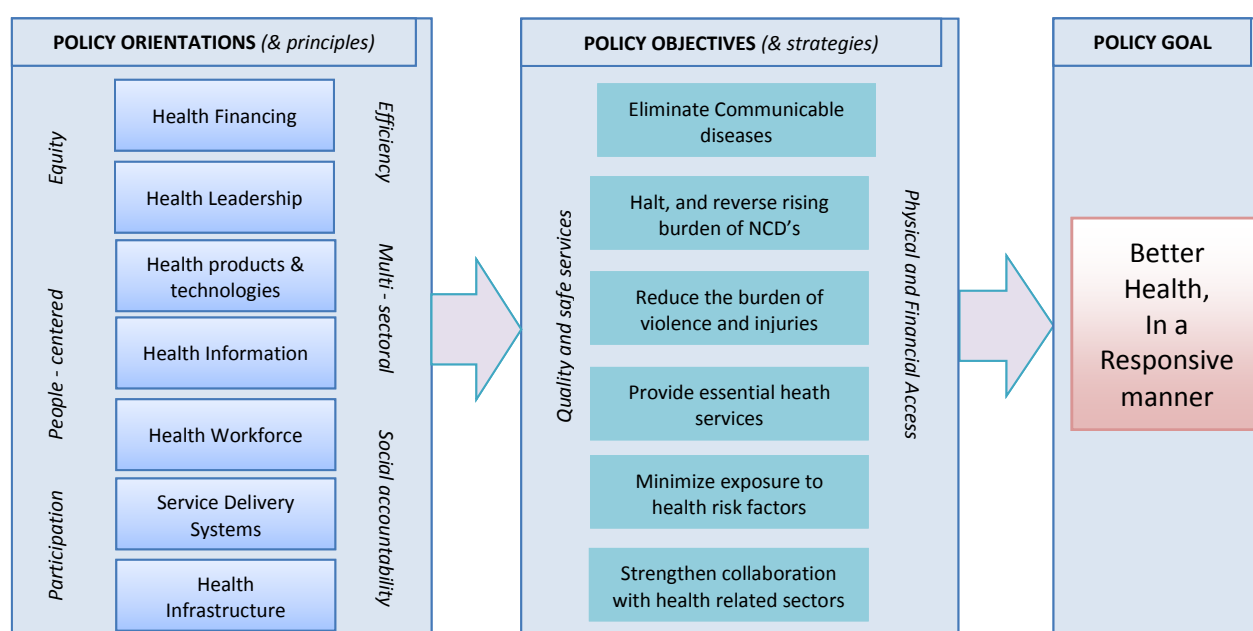


## 1.2 Overview of the Health Sector, and System

The Health Sector has elaborated its Kenya Health Policy (KHP) to guide attainment of the long term Health goals sought by the Country, outlined in the Vision 2030 and the 2010 constitution. The policy framework has, as an overarching goal, **‘attaining the highest possible health standards in a manner responsive to the population needs’**. The policy will **aim** to achieve this goal through supporting provision of *equitable, affordable and quality health and related services at the highest attainable standards to all Kenyans*. The **target** of the policy is to attain a level and distribution of health at a level commensurate with that of a middle income country, through attainment of the following targets.

Policy Directions to guide the attainment of the Health goal and strategic directions are defined in terms of six policy objectives (relating to Health and Related services), and seven policy orientations (relating to investments needed). These are interlinked as shown in the figure below.

**Figure 1: Framework for Policy directions**



The Health Services objective for the Kenya Health Policy is to **attain universal coverage with critical services that positively contribute to the realization of the overall policy goal**. Six policy objectives, therefore, are defined, which address the current situation – each with specific strategies for focus to enable attaining of the policy objective.

- 1. Eliminate communicable conditions:** This it aims to achieve by forcing down the burden of communicable diseases, till they are not of major public health concern.
- 2. Halt, and reverse the rising burden of non communicable conditions.** This it aims to achieve by ensuring clear strategies for implementation to address all the identified non communicable conditions in the country.
- 3. Reduce the burden of violence and injuries.** This it aims to achieve by directly putting in place strategies that address each of the causes of injuries and violence at the time.
- 4. Provide essential health care.** These shall be medical services that are affordable, equitable, accessible and responsive to client needs.

5. **Minimize exposure to health risk factors.** This it aims to achieve by strengthening the health promoting interventions, which address risk factors to health, plus facilitating use of products and services that lead to healthy behaviors in the population.
6. **Strengthen collaboration with health related sectors.** This it aims to achieve by adopting a ‘Health in all Policies’ approach, which ensures the Health Sector interacts with and influences design implementation and monitoring processes in all health related sector actions.

To attain the defined impact targets, the KHSSP prioritizes attainment of the Health Outcomes that target specific strategies for different conditions. These will be eradication (completely remove the condition from the Country), elimination (reduce the burden till it is not of a public health concern), control / containment (halt, and/or reverse the rising burden of the condition)

**Figure 2: Focus of different Health Outcomes in KHSSP**

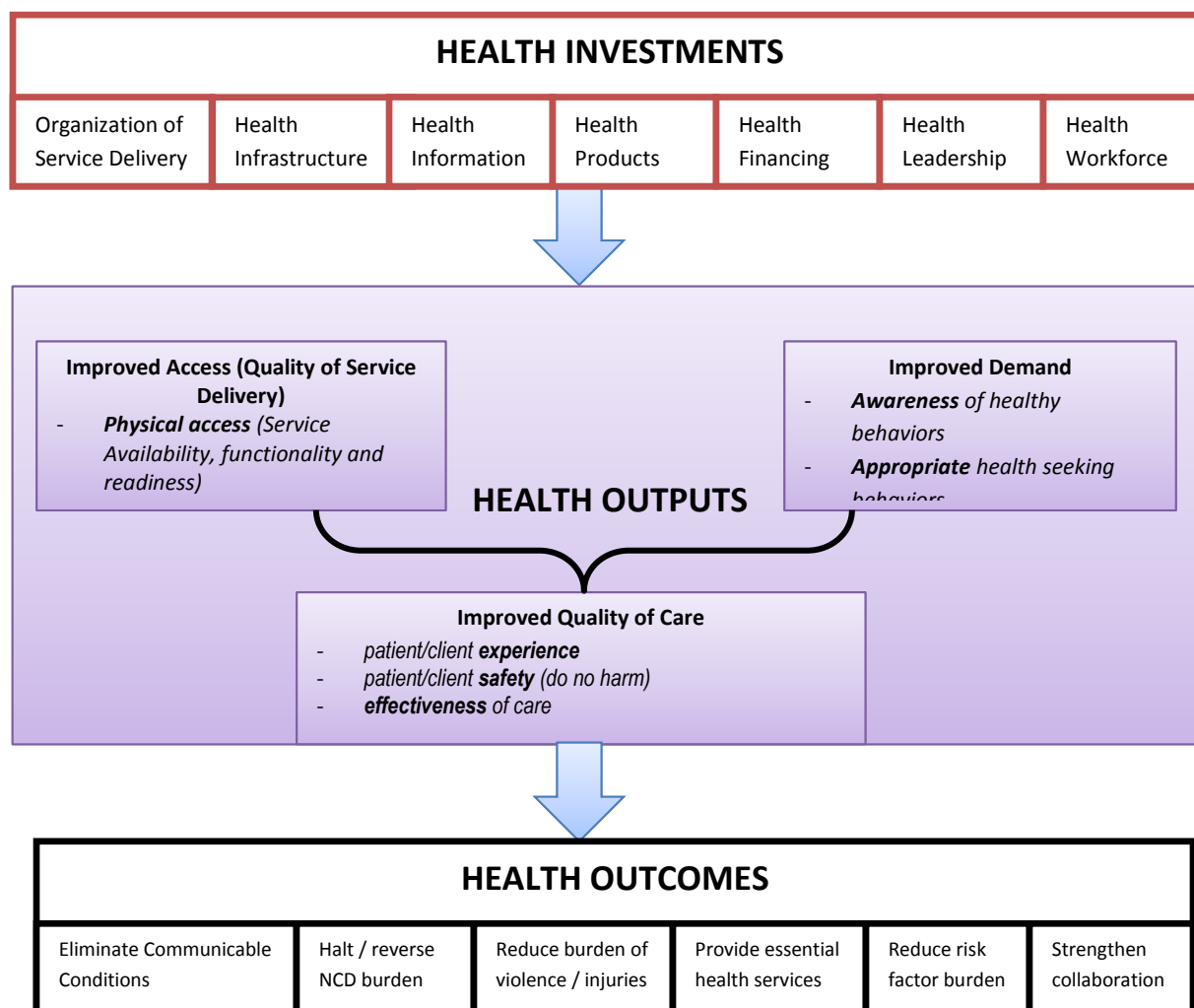
<p><b>CONDITIONS TARGETED FOR ERADICATION</b></p> <ol style="list-style-type: none"> <li>1. Polio</li> <li>2. Guinea Worm Infestation</li> <li>3. Maternal and Neonatal Tetanus</li> <li>4. Leprosy</li> <li>5. New / re-emerging infections</li> </ol>	<p><b>CONDITIONS TARGETER FOR ELIMINATION</b></p> <ol style="list-style-type: none"> <li>1. Malaria</li> <li>2. Mother to Child HIV transmission,</li> <li>3. Measles,</li> <li>4. Neglected Tropical Conditions</li> </ol>
<p><b>CONDITIONS TARGETED FOR CONTROL</b></p> <ol style="list-style-type: none"> <li>1. HIV / AIDS</li> <li>2. Conditions in the perinatal period</li> <li>3. Lower Respiratory infections,</li> <li>4. Tuberculosis</li> <li>5. Diarrhoeal diseases in children,</li> <li>6. Cerebrovascular diseases,</li> <li>7. Ischaemic Health disease,</li> <li>8. Road traffic accidents,</li> <li>9. Violence including Gender Based Violence</li> <li>10. Unipolar depressive disorders</li> </ol>	<p><b>RISK FACTORS TARGETED FOR CONTAINMENT</b></p> <ol style="list-style-type: none"> <li>1. Unsafe Sex</li> <li>2. Unsafe water, sanitation &amp; hygiene</li> <li>3. Suboptimal breastfeeding</li> <li>4. Childhood and maternal underweight,</li> <li>5. Indoor air pollution,</li> <li>6. Alcohol use,</li> <li>7. Vitamin A deficiency,</li> <li>8. High blood glucose,</li> <li>9. High blood pressure,</li> <li>10. Zinc deficiency,</li> <li>11. Iron deficiency,</li> <li>12. Lack of contraception</li> </ol>

These Service Delivery outcomes will be attained through focusing on three output areas:

- Improving access to health services (physical, financial and socio-cultural)
- Improving demand for health services
- Improving quality of care

These three outputs relate to each other, and to health outcomes as shown in the figure below.

Figure 3: Linkage between health outputs, investments and outcomes



The Health Outputs therefore are a measure of how well the investments are being applied, to enable attainment of the desired health outcomes.

The health outcomes are comprehensively defined in the Kenya Essential Package for Health (KEPH), which defines health services and interventions to be provided for each Policy Objective, by level of care and cohort (where applicable).

The tiers in the KEPH are the levels of care as defined in the Kenya Health Policy.

1. **Community level:** The foundation of the service delivery system, with both demand creation (health promotion services), and specified supply services that are most effectively delivered at the community. In the essential package, all non facility based health and related services are classified as community services – not only the interventions provided through the Community Health Strategy as defined in NHSSP II.
2. **Primary care level:** The first physical level of the health system, comprising all dispensaries, health centres, maternity / nursing homes in the country. This is the 1<sup>st</sup> level care level, where most clients health needs should be addressed
3. **County level:** The first level hospitals, whose services complement the primary care level to allow for a more comprehensive package of close to client services

- National level:** The tertiary level hospitals, whose services are highly specialized and complete the set of care available to persons in Kenya.

The KEPH interventions by cohorts are defined only for those specific to a given cohort, not for all KEPH interventions. The cross cutting interventions are not aligned to any cohort. Specific KEPH cohorts are:

- Pregnancy and the newborn (up to 28 days):** The health services specific to this age-cohort across all the Policy Objectives
- Childhood (29 days – 59 months):** The health services specific to the early childhood period
- Children and Youth (5 – 19 years):** The time of life between childhood, and maturity.
- Adulthood (20 – 59 years):** The economically productive period of life
- Elderly (60 years and above):** The post – economically productive period of life

The KEPH services are summarized in the table below.

**Table 3: Summary of KEPH for the Strategic Plan 2013 – 2017**

Policy Objective	Services	Policy Objective	Services
<b>Eliminate Communicable Conditions</b>	Immunization	<b>Provide essential health services</b>	General Outpatient
	Child Health		Integrated MCH / Family Planning services
	Screening for communicable conditions		Accident and Emergency
	Antenatal Care		Emergency life support
	Prevention of Mother to Child HIV Transmission		Maternity
	Integrated Vector Management		Newborn services
	Good hygiene practices		Reproductive health
	HIV and STI prevention		In Patient
	Port health		Clinical Laboratory
	Control and prevention neglected tropical diseases		Specialized laboratory
<b>Halt, and reverse the rising burden of non communicable conditions</b>	Health Promotion & Education for NCD's	Imaging	
	Institutional Screening for NCD's	Pharmaceutical	
	Rehabilitation	Blood safety	
	Workplace Health & Safety	Rehabilitation	
	Food quality & Safety	Palliative care	
		Specialized clinics	
<b>Reduce the burden of violence and injuries</b>	Health Promotion and education on violence / injuries	Comprehensive youth friendly services	
	Pre hospital Care	Operative surgical services	
	OPD/Accident and Emergency		
	Management for injuries	Specialized Therapies	
	Rehabilitation		
<b>Minimize exposure to health risk factors</b>	Health Promotion including health Education	<b>Strengthen collaboration with health related sectors</b>	Safe water
	Sexual education		Sanitation and hygiene
	Substance abuse		Nutrition services
	Micronutrient deficiency control		Pollution control
	Physical activity		Housing
	School health		
	Water and Sanitation Hygeine		
	Food fortification		
	Population management		
	Road infrastructure and Transport		

## 2 Overview of the Service Availability and Readiness Mapping

### 2.1 Why a SARAM

There is a clear rationale for the health sector to carry out a Service Availability and Readiness Mapping exercise at this point in time.

1. Health service delivery in Kenya has rapidly been expanding in scope and complexity over the last two decades. Several new interventions have been introduced in the Sector during this period, in addition to the existing interventions. The proposed Kenya Health Strategic and Investment Plan 2012/13 – 2017/18 brings together the full range of expected interventions to be provided, by level of care, into the Kenya Essential Package for Health. However, at present, it is not clear how much of the KEPH package is being provided at the different levels of care.
2. The KHSSP 2012/13 – 2017/18 strategic plan calls for up to date information on health investments across the 7 sector policy orientations (Service Delivery organization; Health Workforce; Health Information; Health Products; Health Financing; Health Infrastructure; and Health Leadership). This information would guide the sector on gaps that exist, and so investment priorities needed to attain the Service Outcomes of the KHSSP. At present, most of the information on the respective investments is outdated, or partial (missing key constituents, such as Faith based / private sectors)
3. As Counties prepare to take up their functions as per the 2010 Constitution, an understanding of their readiness to take up their functions is needed, so as to appropriately targets capacity building support required to make them functional
4. As part of the hand over of County assets, the Health Sector is expected to have a comprehensive inventory of its assets and liabilities that need to be handed over. At present, the sector doesn't have a comprehensive set of information to inform it on what needs to be handed over, and their state of functionality.
5. A Master Facility List has been generated, which brings together all known facilities in the Country into one online, with their location and ownership. However, because this process has been carried out with different teams and standards, most facility geocode information is wrongly inputted, leading to facilities being located in obviously inaccurate locations. In addition, the private sector facility information is still not complete – many private sector facilities are not yet included in the Master Facility List

In the recent past, the sector has carried out or is planning to carry out a number of surveys to address different expectations. A Service Availability Mapping (SAM, 2004) was carried out, to map Human Resources and Infrastructure, plus a selected set of services being provided across the Country. This was carried out over 8 years ago, making its information inaccurate at present, More recently, a Kenya Service Provision Assessment (KSPA, 2010) was carried out, capturing service provision for priority conditions, particularly relating to Reproductive and Child Health, and quality of the related care. Also, the sector is planning to carry out a Public Expenditure Tracking and Service Delivery Survey (PETS, 2012/13) that will track resource flows, and resultant services purchased with these resources. Finally, a Human Resources Mapping (HRM, 2012/13) is being carried out to comprehensively characterise the Health Workforce in the Country, and so guide future Human Resource for Health (HRH) planning.

**Table 4: Relation between SARAM and other mapping exercises**

	<b>SAM</b>	<b>KSPA</b>	<b>PETS</b>	<b>HR Mapping</b>	<b>SARAM</b>
<b>Time</b>	2004	2010	Planned 2012/13	Planned 2012/13	2012
<b>Service provision</b>	Selected services	Priority services	Selected services	NA	All services
<b>Quality assessment</b>	None	Quality of Care	None	None	Quality of Service Delivery Readiness to provide services
<b>Scope</b>	Sample, in all districts	Sample	Sample	National	National
<b>Inputs focus</b>	HR, infrastructure	Selected Inputs	None	Human Resources	All inputs (HR, infrastructure, commodities)
<b>Output</b>	National, district	National, Province	National	National, County, facility	National, County, facility
<b>Updating info</b>	None	None (next KSPA)	None (next PETS)	HRIS records	MFL, DHIS regular records

Each of these assessments were designed for a specific purpose, and miss critical information that the sector needs for it to comprehensively understand its capacity for service provision. To address these gaps, the Service Availability and Readiness Assessment (SARAM) is proposed. The SARAM relates to other mapping exercises by:

- Assessing provision for ALL Health Services and interventions as outlined in the KEPH, not just priority services. No other mapping exercise provides this scope
- Provides information on Quality of Service Delivery (a result of available inputs for service provision) and readiness to provide services. The KSPA on the other hand was able to provide information on quality of care (a result of skills mix needed for service provision)
- Is national in scope. Apart from the HR mapping, all the other mapping exercises are samples
- Assessing availability of all inputs needed to provide service delivery. No other mapping exercise does this.
- The outputs from the process are useful to both National, and County Governments. Only the Human Resource (HR) mapping is able to do the same
- Information from the SARAM will be updated through existing processes, particularly the DHIS. Other mapping exercises don't have in built mechanisms to assure continued updating of the information

## 2.2 Elements of the SARAM

The World Health Organization indicates that Service Availability and Readiness Assessment (SARA) as a health facility assessment tool designed to assess and monitor the service availability and readiness of the health sector and to generate evidence to support the planning and managing of a health system. SARA is designed as a systematic survey to generate a set of tracer indicators of service availability and readiness. The survey objective is to generate reliable and regular information on service delivery (such as the availability of key human and infrastructure resources), on the availability of basic equipment, basic amenities, essential medicines, and diagnostic capacities, and on the readiness of health facilities to provide basic health-care interventions relating to family planning, child health services, basic and comprehensive emergency obstetric care, HIV, TB, malaria, and non-communicable

With the increased demand for accountability and the need to demonstrate results at country and county levels, information is needed to track how health systems would respond to increased inputs and improved processes over time and the impact such inputs and processes have on improved health outcomes and better health status. The provision of the defined Health and related services is a function of:

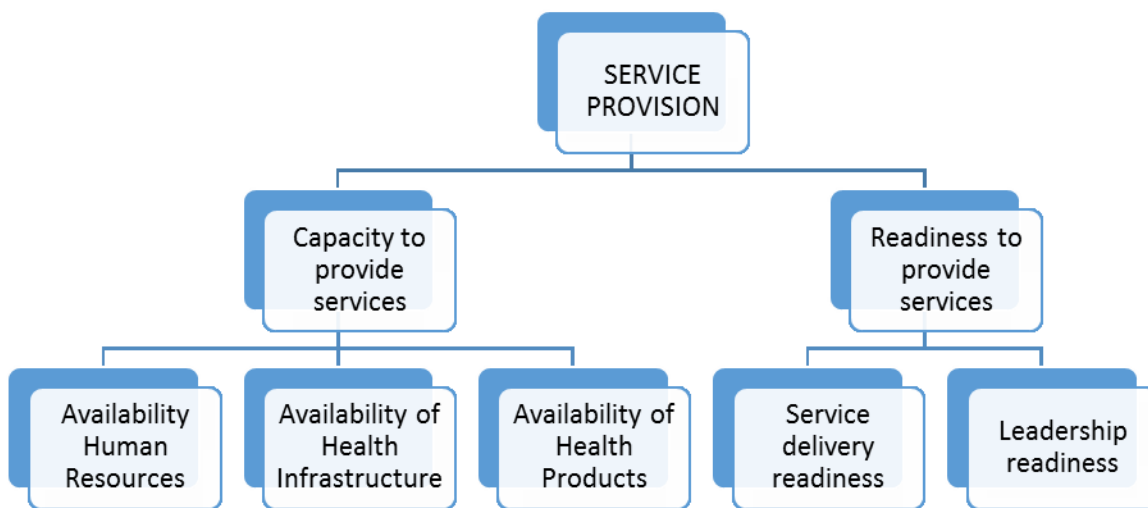
- i. Availability of the inputs needed to provide the service
- ii. Health Worker Knowledge on the methods of provision of the service, and
- iii. The ability to appropriately mix the required inputs to deliver the service

The SARAM focuses on providing comprehensive information on Health Access, as defined in the Kenya Policy documents. It provides a mapping of:

- Status of KEPH provision across the Country (health outcomes),
- Capacity to provide services, looking at
  - o Availability of critical inputs needed for provision of services
  - o Functionality of critical inputs needed for provision of services
- Readiness of critical inputs needed for provision of services

It therefore will be able to provide information to decision makers and managers on the existing capacity for Service Provision. Availability of inputs is assessed through a mapping of existing Human Resources (numbers, and basic skills), Infrastructure (including physical infrastructure, equipment, transport, and ICT), and Health Products. Health worker knowledge and ability to mix inputs is assessed through mapping of service readiness (leadership, and organizational capacity).

**Figure 4: SARAM Conceptual Framework**



The SARAM assesses these variables, to allow the sector characterize its capacity to provide planned services, and its readiness to provide the same. The SARAM is an adaptation of the Service Availability and Readiness Assessment<sup>1</sup> process (SARA), by bringing in elements peculiar to Kenya. These include:

- Need for a comprehensive mapping of current provision of the KEPH interventions
- Comprehensive mapping of Health Infrastructure to inform the handover of Health assets
- Adaptation of information on health Commodities, to align it to Health Products used in Kenya,
- Specific service readiness is not assessed

<sup>1</sup> For details, see [http://www.who.int/healthinfo/systems/sara\\_introduction/en/index.html](http://www.who.int/healthinfo/systems/sara_introduction/en/index.html)

- Inclusion of Leadership readiness as a key variable.

## 2.3 Aim and Objectives of the SARAM

The overall aim of the SARAM was to provide an understanding of the capacity for Service provision that existed in Kenya. The information generated will be used for both National and County Governments in their planning for service provision. Specifically, the SARAM aims to:

- a) Collect geocodes for facilities and verifies Health Facility geocodes for all facilities in the MFL, using a standard approach
- b) Collects information for the Missing facilities in MFL and provides information for updating health systems.
- c) Collect comprehensive sector information on provision of KEPH interventions across the Country
- d) Map available inputs for Health Service delivery that exist across the Country. (These include information on the Health Workforce, Health Infrastructure (physical infrastructure, equipment, transport, ICT), and Health Products)
- e) Collate information on readiness of health facilities to provide the defined health services (This includes availability of knowledge, supplies, and capacities needed to ensure available inputs are being used to produce required outputs)

The survey generates a set of information for tracer indicators of Service Availability and Readiness that can be used to by both the National, and by County governments to:

- Detect change and measure progress in strengthening health system overtime.
- Plan and monitor scale up of service interventions for key services to achieve the MDGs and better respond to the increased burden of chronic diseases
- Provide an up to date information on assets for hand over, and to inform the Investment Planning in the KHSSP III, Annual Work Plans and County strategic plans
- Provide an Up to date and comprehensive geocode information on all existing health facilities
- Provide Information on facility readiness, and so priority processes needed to improve provision of services. Support both national and county planners in planning and managing health systems by assessing equitable and appropriate distribution of services and resources.
- Provides objective information on Tracer indicators about whether or not a facility meets the required conditions to support provision of basic or specific services with a consistent level of quality and quantity.



## 2.4 Methodology of the SARAM

The Kenyan SARAM was carried out during the period April – May 2013. It was a National Census, involving all Health Facilities in the Country, plus management units. Facilities include:

- Public health facilities referred herein to facilities owned by and managed by the Ministry of Health, Municipal Authorities and government institutions.
- Private not for profit Facilities – those owned and managed by Faith Based Health services (FBHS), NGOs, CSO's and other non-profit/Public Benefit Organizations.
- Private-for-profit facilities which include facilities manned by private individuals, organisations or groups, as profit making enterprises.

The Country was zoned into 10 areas for ease of data collection. An independent firm was contracted to coordinate data collection in each of the 10 zones of the Country. These 10 zones, and their respective data collection firms, are shown in the table below;

**Table 5: Coordinating firms, for each zone**

<b>Country Zone</b>	<b>Coordinating firm</b>
<b>Nairobi</b>	University of Nairobi(UON)
<b>Eastern North</b>	HEFDC
<b>Central</b>	University of Nairobi(UON)
<b>North Eastern</b>	Mastard Masters
<b>Eastern South</b>	HEFDC
<b>Coast</b>	Ideal Project Design
<b>Upper Rift</b>	Ideal Project Design
<b>Lower Rift</b>	Solarmart
<b>Nyanza</b>	Great Lakes University
<b>Western</b>	Great Lakes University

A standard questionnaire was developed, and provided to each firm for use in data collection. Information collected was on three core areas:

- 1) Basic facility information: Location, ownership, geocodes
- 2) Service Availability: Service Interventions provided by the facility, and available Human Resources for Health (HRH), Infrastructure (physical, equipment and Communication) and Health Products to facilitate provision of the interventions
- 3) Service Readiness: Health Service Delivery organization, and leadership capacity needed to provide the services

The data collection process was automated through use of hand held devices/computers to enter the data from the field. A DHIS module was opened to facilitate this.

A Quality Assurance team was constituted from national and County levels, involving both Government and partner representatives. This team provided oversight to the independent firm during the data collection process, to ensure information was being collected as planned.

Data verification was carried out real-time during the field work as information was entered into the DHIS module by a national level dedicated team, and corrections required communicated to the field teams during data collection. At the end of the fieldwork, all firms spent 1 week with the National level, reviewing their consolidated information to address inaccuracies in the data. Prior to completion of the field work, the County Health teams formally endorsed the final field work from the firms, to assure ownership and review by the

Counties. Once the data verification was completed, a core team continued with the analysis of the data, whose outputs are presented in the coming chapter.

The key challenges in the process include the following:

- Some of the firms were not adhering to the agreed methodology, causing delays in verification of the data.
- A few facilities were not willing to participate in the SARAM, as communication to them hadn't been comprehensively given. During analysis an account for facilities not reached due to the various reasons such as insecurity, declined to participate and to represent the actual distribution of facilities in the country and counties.
- Additionally, some private facilities were not willing to share some critical information, particularly as relates to Health Workforce.

In spite of the above challenges, the comprehensive data verification process set up allowed for most of these challenges to be addressed during the field work. As a result, the results represent an accurate reflection of the status of different SARAM elements.

## 2.5 Description of the SARAM database

During the SARAM exercise, a total of 8,401 Health facilities were visited out of which 7,396 had the completed questionnaires filled, 599 had the questionnaires partially completed while the rest had respondents not available, refused to participate and closed, pending opening or questionnaire blank. These were 64, 22, and 320 respectively. The response rate was 88% of completely filled questionnaires, less than 1% refused to participate while 7% of them were partially completed. The rest respondents were not available or questionnaire not completed major key sections.

Hospitals constituted 7.3% of the total Health facilities visited, Health Centres 12.8%, Dispensaries 45.8%, private Medical clinics, standalone VCTs, Diagnostic units (laboratory, X-rays), dental units constituted 30.5% while Maternity and Nursing Homes 3.6%. Rural health facilities constituted 66.3% of the total health facilities surveyed while 33.7% were from urban. 48.8% of the total health facilities are owned and manned by government of Kenya (Public), 16.4% are owned and manned by NGO/ Faith based Health services (Private-not-for-profit), 32.7% are owned and Manned by private enterprises (Private- for-profit) and 2% are others owned and manned by Community or unspecified organizations and groups.

**Table 6: Facilities with information in the SARAM exercise, by County**

County	Total number of facilities interviewed	Facilities not interviewed				Total number of facilities visited
		No respondent	Refused	Partially completed	Others	
Baringo	162	2	0	7	17	188
Bomet	110	0	0	1	2	113
Bungoma	132	1	0	9	7	149
Busia	77	0	0	3	3	83
Elgeyo-Marakwet	93	2	0	23	5	123
Embu	144	0	0	5	1	150
Garissa	123	0	0	6	4	133
Homa Bay	166	0	1	14	1	182
Isiolo	37	1	0	4	0	42
Kajiado	202	1	0	22	1	226
Kakamega	206	0	0	23	3	232
Kericho	171	0	0	3	0	174
Kiambu	323	4	2	23	0	352
Kilifi	194	3	0	5	29	231
Kirinyaga	132	0	0	10	0	142
Kisii	120	0	1	20	0	141
Kisumu	128	0	0	26	1	155
Kitui	286	4	0	27	5	322
Kwale	90	0	0	5	0	95
Laikipia	85	3	2	1	2	93
Lamu	42	1	0	0	0	43
Machakos	239	7	1	16	36	299
Makueni	168	4	3	16	2	193
Mandera	61	1	0	3	4	69
Marsabit	81	0	0	8	4	93
Meru	334	4	0	27	40	405
Migori	157	2	1	12	2	174
Mombasa	286	10	3	7	67	373
Muranga	174	0	0	10	0	184
Nairobi	798	2	5	70	1	876
Nakuru	302	1	0	15	10	328
Nandi	169	0	0	6	15	190
Narok	124	0	1	5	5	135
Nyamira	107	0	0	7	0	114
Nyandarua	109	0	0	7	0	116
Nyeri	223	4	1	22	2	252
Samburu	39	2	0	32	4	77
Siaya	144	0	0	11	3	158
Taita Taveta	76	0	0	5	0	81
Tana River	41	0	0	8	0	49
Tharaka Nithi	112	1	0	4	0	117
Trans-Nzoia	121	0	0	16	4	141
Turkana	115	0	0	21	6	142
Uasin Gishu	122	2	1	24	21	170
Vihiga	81	0	0	6	0	87
Wajir	109	0	0	1	3	113
West Pokot	81	2	0	3	10	96
<b>Facility type</b>						
Hospital	545	2	3	62	2	614
Health centre	1007	0	2	58	5	1072
Dispensary	3414	30	7	262	136	3849
Medical clinic/Stand-alone VCT	2157	32	10	189	173	2561
Maternity/Nursing home	273	0	0	28	4	305
<b>Managing authority</b>						
Public	3707	24	4	271	92	4098
Private, not-for-profit	1231	6	6	96	36	1375
Private, for-profit	2318	31	10	220	167	2746
Others	140	3	2	12	25	182
<b>Urban/Rural</b>						
Urban	2450	25	17	214	128	2834
Rural	4946	39	5	385	192	5567
<b>Total</b>	<b>7396</b>	<b>64</b>	<b>22</b>	<b>599</b>	<b>320</b>	<b>8401</b>

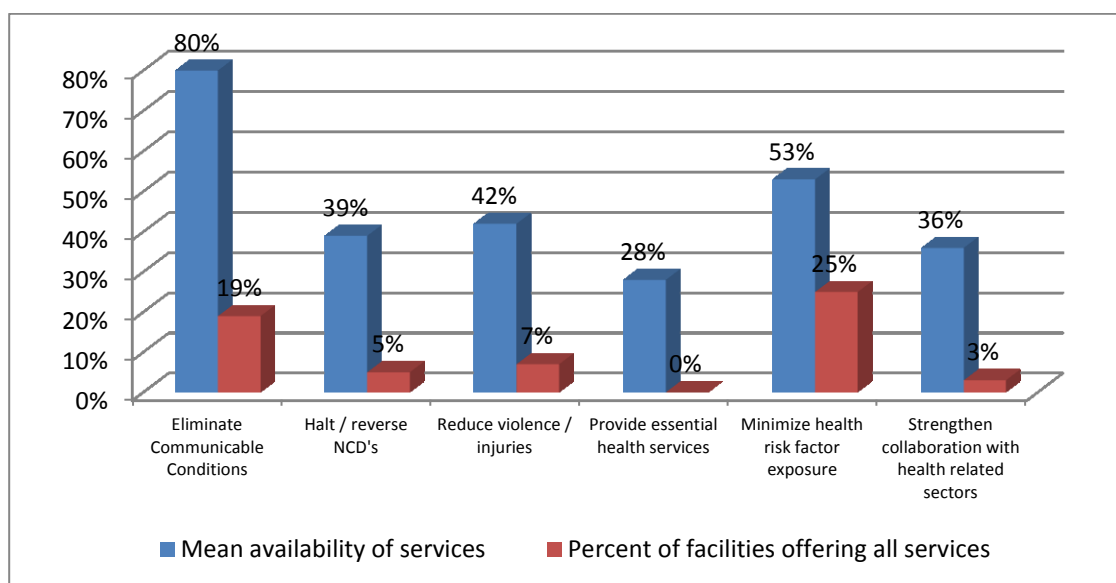
### 3 Availability of KEPH Services

The Kenya Essential Package for Health, (KEPH) represents the comprehensive scope of health services that need to be provided across the Country, by tier of care. Services are defined for each of the Health Sector Policy Objectives. Specific interventions have also been defined in each policy objective for attainment, and services around which the interventions are clustered to guide the implementation level and communities on what needs to be provided. In order for the health sector to offer this health package, various services and key health inputs what is referred to as policy orientations must be available and documented.

Access to quality health services is one of the main functions of a health system. For the Kenyan health services to be accessible to the population, health services must be equitably distributed to allow physical accessibility to clients with sufficiently integrated services to respond to demand for services. The facilities should have the capacity do provide the services offered i.e. service readiness (the necessary trained staff, appropriate guidelines, presence of infrastructure, equipment, commodities, medicines and diagnostics at health facility).

However, the availability of the KEPH services varies significantly, depending on the specific set of services. Those services addressing communicable disease elimination are most available (80%), while provisions of essential health services are least available (28%). On the other hand, more facilities had the full scope of services aimed at reducing exposure to health risk factors (25%), while 0% of facilities had the full scope of essential health services.

**Figure 5: Mean availability, and scope of provision of KEPH services**



Information on existence of KEPH services is now highlighted, by Health Sector Policy objective.

### 3.1 To eliminate communicable conditions

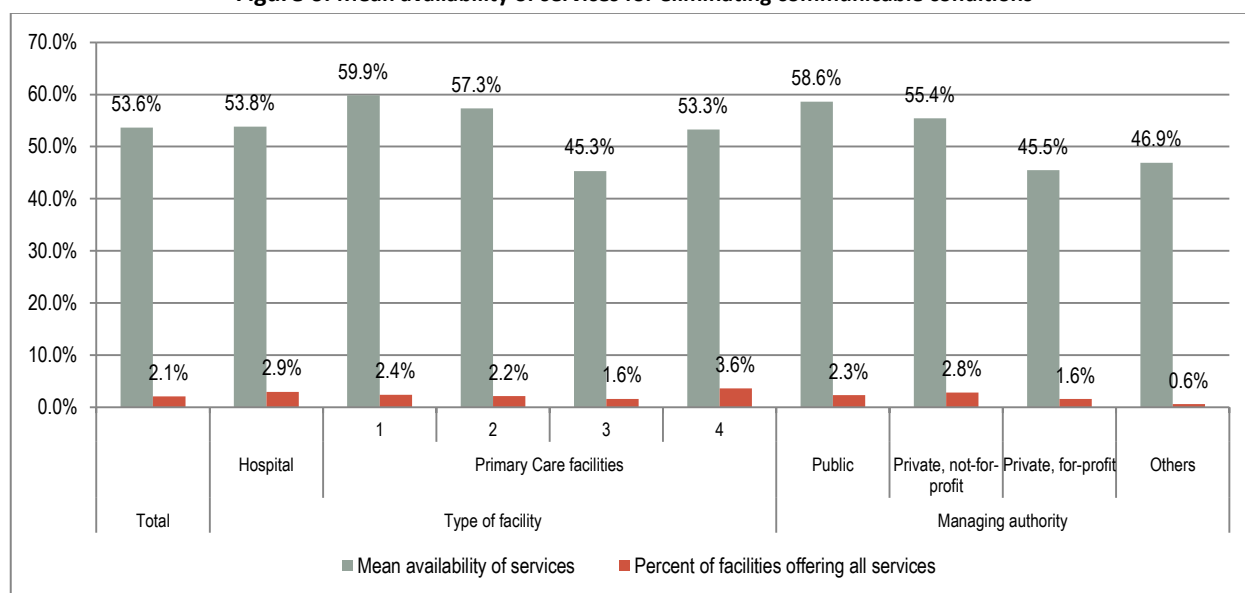
The mean availability of services to eliminate communicable conditions is at 54% across all facilities, with availability higher at primary care facilities as compared to hospitals. Availability of services is also higher amongst public facilities as compared to private facilities. On the other hand, only 2% of facilities are providing ALL KEPH services required to eliminate communicable conditions, with hospitals and private not for profit facilities having the highest proportion of facilities providing all of their expected services.

Looking at the specific services, child health, good hygiene, and HIV/STI prevention services were the 3 most available, while port health, NTD control and integrated vector management were the 3 least available.

**Table 7: Summary National information on provision of KEPH Services**

Variable	Total	Type of facility					Managing authority			
		Hospital	Primary Care facilities				Public	Private, not-for-profit	Private, for-profit	Others
			1	2	3	4				
<b>Total number of facilities</b>	<b>7995</b>	607	1065	3676	2346	301	3978	1327	2538	152
<b>Mean availability of services</b>	54%	54%	60%	57%	45%	53%	40%	39%	32%	33%
<b>Percent of facilities offering all services</b>	2.1%	2.9%	2.4%	2.2%	1.6%	3.6%	2.3%	2.8%	1.6%	0.6%
<b>Specific Services</b>										
Immunization	63%	75%	90%	80%	24%	67%	88%	65%	29%	38%
Child health	70%	80%	92%	84%	37%	75%	90%	72%	43%	40%
Screening for communicable conditions	58%	73%	83%	67%	32%	63%	74%	61%	36%	42%
Antenatal care	68%	80%	91%	82%	35%	77%	88%	70%	42%	39%
Prevention of mothers-to-child transmission of HIV	60%	72%	86%	75%	25%	60%	83%	60%	29%	34%
Integrated vector management	30%	48%	47%	36%	13%	30%	43%	31%	15%	20%
Good hygiene practices	76%	82%	91%	84%	56%	80%	88%	79%	60%	52%
HIV and STI prevention	71%	81%	89%	81%	48%	75%	86%	77%	50%	50%
Port health	6%	11%	9%	7%	4%	9%	8%	8%	5%	4%
Control and prevention of NTD's	29%	43%	42%	33%	17%	35%	37%	31%	20%	24%

**Figure 6: Mean availability of services for eliminating communicable conditions**



KEY: 1 – Health Centre; 2 – Dispensaries; 3 – medical clinics/standalone VCT's; 4 – Others

Availability of services by County is shown in the proceeding two tables – for primary care facilities, and hospitals respectively.

**Table 8: Proportion of Primary Care Facilities providing KEPH Services for elimination of communicable conditions**

County	Total number of Primary Health facilities	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services for elimination of communicable conditions									
				Immunization	Child health	Screening for communicable conditions	Antenatal care	Prevention of mothers-to-child transmission of HIV	Integrated vector management	Good hygiene practices	HIV and STI prevention	Port health	Control and prevention of NTD's
Baringo	162	0%	59%	66%	76%	59%	67%	59%	47%	83%	72%	2%	34%
Bomet	106	4%	64%	92%	93%	69%	96%	90%	45%	96%	96%	2%	19%
Bungoma	130	1%	45%	73%	78%	77%	79%	72%	44%	78%	77%	3%	49%
Busia	73	12%	60%	82%	82%	72%	80%	78%	38%	87%	82%	3%	25%
Elgeyo-Marakwet	107	4%	61%	66%	72%	47%	55%	49%	25%	76%	67%	2%	22%
Embu	141	4%	55%	65%	76%	65%	74%	63%	32%	83%	83%	4%	22%
Garissa	120	10%	59%	55%	67%	63%	62%	52%	35%	85%	65%	8%	30%
Homa Bay	167	7%	62%	91%	90%	77%	91%	86%	59%	90%	88%	14%	56%
Isiolo	38	5%	59%	95%	98%	60%	95%	90%	35%	83%	98%	5%	33%
Kajiado	194	5%	51%	64%	69%	61%	72%	58%	33%	82%	77%	10%	31%
Kakamega	213	1%	48%	72%	78%	67%	82%	74%	43%	84%	83%	4%	31%
Kericho	163	4%	58%	91%	89%	71%	91%	88%	50%	87%	87%	9%	42%
Kiambu	294	4%	49%	61%	72%	60%	68%	54%	28%	84%	75%	13%	35%
Kilifi	188	3%	51%	53%	57%	51%	63%	53%	22%	69%	64%	4%	26%
Kirinyaga	120	3%	56%	50%	67%	54%	65%	56%	24%	76%	64%	6%	18%
Kisii	122	7%	68%	93%	93%	80%	94%	93%	57%	92%	89%	14%	48%
Kisumu	137	5%	61%	86%	87%	75%	82%	80%	53%	88%	88%	9%	58%
Kitui	300	5%	54%	71%	81%	61%	82%	73%	26%	86%	79%	8%	28%
Kwale	91	3%	51%	74%	88%	80%	88%	85%	38%	91%	86%	8%	38%
Laikipia	82	5%	61%	71%	76%	68%	78%	72%	23%	79%	83%	6%	44%
Lamu	39	3%	50%	63%	63%	40%	70%	65%	18%	85%	78%	8%	25%
Machakos	247	6%	54%	63%	70%	54%	67%	58%	23%	73%	68%	5%	24%
Makueni	172	3%	48%	74%	80%	74%	82%	81%	34%	86%	84%	14%	34%
Mandera	59	6%	56%	48%	69%	44%	45%	42%	17%	75%	61%	5%	25%
Marsabit	85	5%	50%	77%	77%	52%	78%	70%	10%	64%	70%	3%	8%
Meru	336	5%	52%	39%	44%	36%	43%	36%	16%	65%	49%	4%	17%
Migori	156	9%	65%	81%	86%	74%	83%	79%	51%	83%	83%	8%	53%
Mombasa	278	3%	53%	27%	37%	38%	40%	23%	10%	51%	45%	3%	17%
Muranga	174	2%	54%	67%	86%	75%	83%	75%	35%	87%	86%	12%	45%
Nairobi	790	5%	43%	34%	44%	33%	40%	30%	13%	57%	49%	6%	17%
Nakuru	300	5%	57%	71%	73%	55%	75%	65%	21%	76%	79%	3%	24%
Nandi	170	5%	59%	70%	71%	51%	66%	65%	32%	76%	73%	9%	27%
Narok	122	7%	55%	84%	83%	73%	83%	82%	48%	87%	83%	11%	29%
Nyamira	106	13%	70%	94%	97%	82%	97%	93%	65%	94%	94%	16%	58%
Nyandarua	103	4%	44%	69%	76%	73%	82%	73%	26%	81%	75%	7%	24%
Nyeri	205	3%	49%	52%	64%	54%	62%	53%	22%	67%	69%	8%	17%
Samburu	67	5%	57%	58%	71%	66%	74%	60%	21%	84%	77%	3%	27%
Siaya	147	13%	65%	89%	91%	81%	89%	84%	48%	90%	91%	8%	59%
Taita Taveta	78	1%	49%	74%	86%	76%	83%	74%	18%	89%	80%	0%	14%
Tana River	46	0%	49%	89%	77%	53%	79%	70%	28%	64%	72%	2%	30%
Tharaka Nithi	109	6%	49%	50%	67%	50%	55%	47%	17%	76%	69%	4%	18%
Trans-Nzoia	131	2%	39%	51%	51%	47%	55%	47%	33%	58%	57%	1%	24%
Turkana	129	4%	66%	71%	80%	70%	61%	54%	27%	79%	63%	0%	32%
Uasin Gishu	134	7%	59%	76%	80%	63%	78%	70%	44%	75%	75%	5%	23%
Vihiga	79	1%	45%	76%	80%	75%	81%	71%	48%	87%	82%	5%	35%
Wajir	99	12%	61%	56%	66%	56%	58%	49%	20%	75%	62%	15%	26%
West Pokot	79	1%	56%	63%	63%	51%	62%	48%	36%	71%	70%	2%	34%

**Table 9: Proportion of hospitals providing KEPH Services for elimination of communicable conditions**

County	Total number of hospitals	% of facilities offering all services	Mean availability of services	% of hospitals facilities providing specific KEPH Services for elimination of communicable conditions									
				Immunization	Child health	Screening for communicable conditions	Antenatal care	Prevention of mothers-to-child transmission of HIV	Integrated vector management	Good hygiene practices	HIV and STI prevention	Port health	Control and prevention of NTD's
Baringo	7	0%	64%	100%	100%	100%	100%	100%	86%	100%	86%	14%	57%
Bomet	5	0%	64%	100%	100%	100%	100%	100%	60%	100%	100%	0%	60%
Bungoma	11	0%	48%	100%	100%	91%	100%	100%	91%	91%	100%	0%	82%
Busia	7	0%	51%	100%	100%	100%	100%	100%	43%	100%	100%	0%	43%
Elgeyo-Marakwet	9	0%	61%	100%	100%	100%	100%	100%	78%	100%	100%	11%	44%
Embu	8	0%	48%	88%	88%	75%	100%	75%	63%	100%	100%	13%	38%
Garissa	9	11%	63%	100%	100%	89%	100%	100%	56%	100%	100%	11%	56%
Homa Bay	13	15%	78%	100%	100%	100%	100%	100%	92%	100%	92%	23%	85%
Isiolo	3	0%	75%	100%	100%	100%	100%	100%	50%	100%	100%	0%	0%
Kajiado	30	3%	46%	48%	71%	58%	65%	35%	32%	65%	77%	13%	35%
Kakamega	16	0%	48%	100%	100%	88%	100%	88%	63%	100%	94%	0%	44%
Kericho	11	9%	77%	100%	100%	100%	100%	100%	82%	100%	100%	18%	55%
Kiambu	52	2%	45%	57%	68%	58%	66%	42%	34%	81%	79%	15%	34%
Kilifi	11	0%	64%	82%	82%	82%	100%	91%	45%	100%	100%	9%	45%
Kirinyaga	22	5%	45%	23%	36%	36%	50%	32%	18%	50%	64%	5%	14%
Kisii	18	6%	74%	100%	100%	100%	100%	100%	67%	94%	100%	11%	67%
Kisumu	17	29%	78%	94%	94%	94%	94%	100%	88%	100%	94%	18%	88%
Kitui	13	0%	59%	93%	93%	87%	87%	87%	60%	80%	87%	0%	27%
Kwale	4	0%	80%	100%	100%	100%	100%	100%	33%	67%	100%	33%	67%
Laikipia	4	0%	68%	100%	100%	75%	100%	100%	50%	75%	75%	0%	75%
Lamu	3	0%	50%	100%	100%	67%	100%	100%	33%	100%	100%	0%	0%
Machakos	8	0%	64%	100%	100%	100%	100%	100%	86%	100%	100%	14%	71%
Makueni	12	17%	64%	100%	100%	100%	100%	92%	75%	100%	83%	17%	50%
Mandera	5	40%	84%	100%	100%	100%	100%	100%	20%	100%	100%	20%	60%
Marsabit	4	0%	28%	100%	100%	50%	100%	100%	25%	75%	75%	0%	50%
Meru	25	0%	43%	81%	74%	70%	81%	81%	41%	78%	74%	4%	33%
Migori	13	15%	71%	100%	92%	92%	100%	100%	85%	100%	100%	8%	62%
Mombasa	15	6%	39%	75%	75%	81%	75%	69%	44%	81%	75%	6%	38%
Muranga	10	10%	45%	80%	100%	90%	90%	90%	60%	100%	90%	30%	60%
Nairobi	78	3%	36%	50%	54%	49%	50%	45%	16%	54%	50%	9%	24%
Nakuru	17	18%	64%	94%	94%	88%	100%	100%	59%	94%	100%	6%	41%
Nandi	5	0%	64%	100%	100%	100%	100%	100%	60%	100%	100%	0%	40%
Narok	7	14%	70%	100%	86%	71%	100%	86%	57%	71%	86%	29%	71%
Nyamira	8	38%	78%	100%	100%	100%	100%	100%	75%	100%	100%	25%	88%
Nyandarua	13	0%	35%	46%	62%	46%	69%	62%	31%	77%	77%	15%	23%
Nyeri	40	2%	47%	39%	59%	39%	44%	34%	15%	63%	54%	10%	22%
Samburu	4	33%	73%	100%	100%	100%	100%	100%	100%	100%	100%	0%	67%
Siaya	8	13%	68%	100%	100%	100%	100%	100%	88%	100%	100%	50%	75%
Taita Taveta	3	0%	76%	100%	100%	100%	100%	100%	80%	100%	100%	0%	20%
Tana River	3	0%	75%	100%	100%	50%	100%	100%	50%	100%	100%	0%	50%
Tharaka Nithi	7	13%	70%	100%	100%	88%	100%	88%	25%	88%	75%	0%	13%
Trans-Nzoia	6	0%	58%	100%	100%	100%	100%	83%	83%	100%	100%	17%	67%
Turkana	7	14%	71%	100%	100%	100%	100%	86%	57%	100%	86%	0%	57%
Uasin Gishu	12	0%	55%	77%	85%	77%	85%	85%	77%	92%	77%	8%	54%
Vihiga	8	0%	31%	88%	88%	75%	88%	88%	50%	100%	88%	0%	25%
Wajir	11	9%	76%	82%	91%	73%	82%	82%	27%	100%	100%	9%	45%
West Pokot	5	0%	58%	100%	100%	80%	100%	100%	80%	100%	100%	20%	80%

### 3.2 To Halt and reverse the rising burden of non-communicable conditions

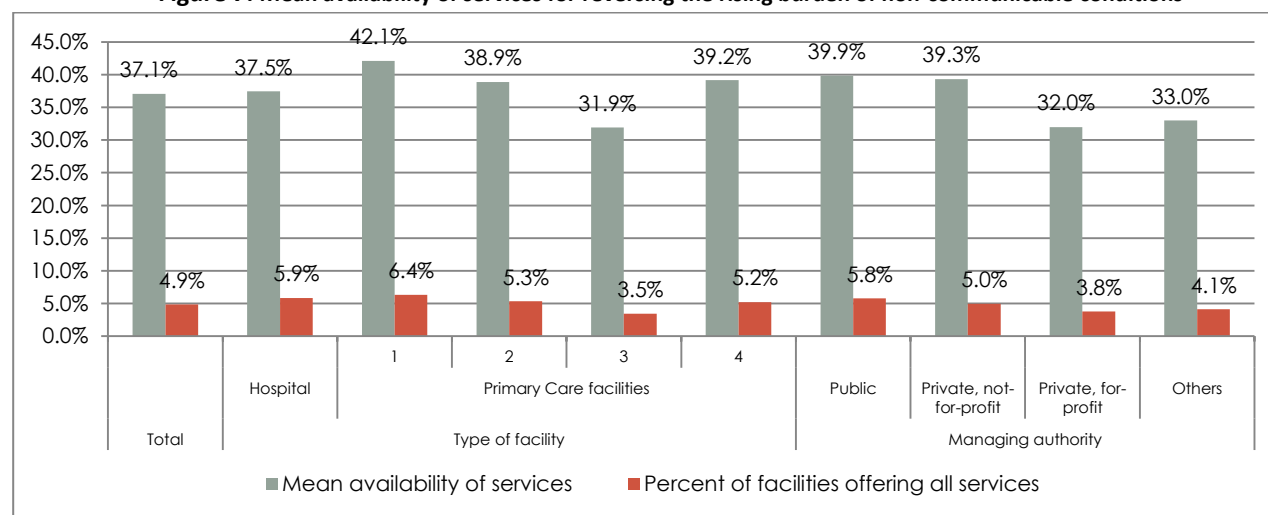
The mean availability of services to halt and reverse the rising burden of non-communicable conditions is at 37% across all facilities, with availability higher at primary care facilities as compared to hospitals. Availability of services is marginally higher amongst public facilities as compared to private facilities. On the other hand, only 4.9% of facilities are providing ALL KEPH services required to halt and reverse the rising burden of non-communicable conditions, with dispensaries and public facilities having the highest proportion of facilities providing all of their expected services.

Looking at the specific services, health promotion and workplace health and safety are most available, while rehabilitation and NCD screening were least available.

**Table 10: Summary National information on provision of KEPH Services**

Variable	Total	Type of facility					Managing authority			
		Hospital	Primary Care facilities				Public	Private, not-for-profit	Private, for-profit	Others
			1	2	3	4				
Total number of facilities	7995	607	1065	3676	2346	301	3978	1327	2538	152
Mean availability of services	37%	37%	42%	39%	32%	39%	40%	39%	32%	33%
Percent of facilities offering all services	5%	6%	6%	6%	3%	5%	6%	5%	4%	4%
<b>Specific services</b>										
Health promotion and education for NCD's	46%	63%	64%	53%	28%	49%	59%	48%	31%	29%
Institutional screening for NCD's	28%	51%	48%	30%	16%	33%	38%	32%	18%	18%
Rehabilitation	10%	33%	15%	11%	7%	16%	14%	13%	8%	11%
Workplace health and safety	58%	73%	76%	65%	40%	64%	69%	63%	44%	46%
Food quality and safety	35%	64%	57%	40%	18%	50%	47%	39%	23%	28%

**Figure 7: Mean availability of services for reversing the rising burden of non-communicable conditions**



KEY: 1 – Health Centre; 2 – Dispensaries; 3 – medical clinics/standalone VCT's; 4 - Others

Availability of services by County is shown in the preceding two tables – for primary care facilities, and hospitals respectively.



**Table 11: Proportion of Primary Care Facilities providing KEPH Services for reversing the rising burden of NCD's**

County	Total number of facilities	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services for reversing the NCD burden				
				Health promotion and education for NCD's	Institutional screening for NCD's	Rehabilitation	Workplace health and safety	Food quality and safety
Baringo	169	4%	42%	34%	19%	2%	75%	60%
Bomet	111	4%	45%	59%	25%	3%	76%	54%
Bungoma	141	1%	33%	67%	47%	9%	57%	36%
Busia	80	12%	44%	64%	47%	14%	62%	32%
Elgeyo-Marakwet	116	4%	40%	29%	10%	5%	64%	34%
Embu	149	4%	37%	46%	20%	9%	60%	29%
Garissa	129	10%	47%	53%	40%	8%	68%	30%
Homa Bay	180	7%	47%	81%	59%	25%	77%	60%
Isiolo	41	5%	41%	45%	13%	13%	48%	50%
Kajiado	224	5%	35%	40%	24%	10%	53%	34%
Kakamega	229	1%	33%	64%	43%	14%	68%	40%
Kericho	174	4%	38%	50%	32%	21%	66%	50%
Kiambu	346	4%	36%	55%	34%	13%	64%	43%
Kilifi	199	3%	30%	38%	26%	6%	52%	21%
Kirinyaga	142	3%	35%	37%	19%	6%	50%	25%
Kisii	140	7%	51%	74%	50%	21%	80%	53%
Kisumu	154	5%	46%	80%	54%	25%	76%	57%
Kitui	313	5%	38%	42%	19%	6%	69%	33%
Kwale	95	3%	29%	63%	48%	7%	65%	41%
Laikipia	86	5%	40%	45%	31%	17%	71%	39%
Lamu	42	3%	32%	25%	18%	10%	48%	30%
Machakos	255	6%	37%	40%	22%	12%	64%	31%
Makueni	184	3%	31%	56%	34%	9%	68%	44%
Mandera	64	6%	45%	31%	6%	2%	50%	16%
Marsabit	89	5%	32%	30%	6%	5%	45%	22%
Meru	361	5%	36%	26%	10%	6%	44%	22%
Migori	169	9%	48%	70%	56%	26%	70%	56%
Mombasa	293	3%	33%	26%	18%	5%	35%	17%
Muranga	184	2%	37%	62%	54%	9%	66%	38%
Nairobi	868	5%	32%	29%	17%	10%	43%	25%
Nakuru	317	5%	40%	45%	24%	5%	59%	32%
Nandi	175	5%	37%	41%	20%	7%	61%	37%
Narok	129	7%	37%	59%	25%	12%	74%	50%
Nyamira	114	13%	51%	77%	60%	26%	82%	68%
Nyandarua	116	4%	30%	47%	31%	12%	64%	44%
Nyeri	245	3%	31%	43%	34%	12%	46%	26%
Samburu	71	5%	39%	51%	15%	7%	58%	34%
Siaya	155	13%	50%	77%	55%	21%	74%	56%
Taita Taveta	81	1%	29%	38%	26%	3%	47%	25%
Tana River	49	0%	29%	47%	28%	2%	32%	38%
Tharaka Nithi	116	6%	27%	23%	10%	6%	54%	33%
Trans-Nzoia	137	2%	24%	48%	25%	9%	43%	26%
Turkana	136	4%	41%	51%	16%	9%	54%	33%
Uasin Gishu	146	7%	39%	40%	29%	12%	68%	30%
Vihiga	87	1%	34%	63%	51%	15%	68%	38%
Wajir	110	12%	51%	48%	29%	2%	42%	20%
West Pokot	84	1%	40%	42%	12%	4%	62%	36%

**Table 12: Proportion of hospitals providing KEPH Services for reversing the rising burden of NCD's**

County	Total number of hospitals	% of facilities offering all services	Mean availability of services	% of hospitals providing specific KEPH Services for reversing the NCD burden				
				Health promotion and education for NCD's	Institutional screening for NCD's	Rehabilitation	Workplace health and safety	Food quality and safety
Baringo	7	0%	37%	71%	86%	14%	100%	71%
Bomet	5	0%	32%	100%	100%	60%	100%	100%
Bungoma	11	0%	40%	100%	73%	55%	91%	64%
Busia	7	0%	43%	86%	86%	29%	100%	71%
Elgeyo-Marakwet	9	0%	42%	67%	44%	22%	100%	100%
Embu	8	0%	28%	88%	50%	50%	88%	88%
Garissa	9	11%	51%	89%	78%	22%	89%	89%
Homa Bay	13	15%	65%	92%	85%	54%	100%	92%
Isiolo	3	0%	60%	100%	50%	50%	100%	100%
Kajiado	30	3%	30%	48%	35%	13%	52%	42%
Kakamega	16	0%	40%	81%	69%	44%	94%	88%
Kericho	11	9%	47%	91%	82%	55%	100%	91%
Kiambu	52	2%	35%	51%	38%	23%	66%	45%
Kilifi	11	0%	33%	36%	27%	36%	73%	73%
Kirinyaga	22	5%	20%	23%	18%	27%	32%	23%
Kisii	18	6%	51%	94%	83%	28%	94%	89%
Kisumu	17	29%	67%	100%	71%	65%	94%	94%
Kitui	13	0%	28%	67%	33%	33%	93%	80%
Kwale	4	0%	67%	100%	67%	100%	100%	100%
Laikipia	4	0%	45%	75%	75%	75%	75%	75%
Lamu	3	0%	20%	0%	0%	33%	67%	67%
Machakos	8	0%	43%	100%	86%	71%	100%	86%
Makueni	12	17%	47%	75%	50%	50%	92%	83%
Mandera	5	40%	80%	80%	60%	20%	60%	60%
Marsabit	4	0%	15%	50%	25%	25%	50%	50%
Meru	25	0%	24%	48%	48%	30%	70%	52%
Migori	13	15%	55%	85%	85%	46%	100%	85%
Mombasa	15	6%	24%	56%	63%	38%	63%	56%
Muranga	10	10%	40%	100%	70%	70%	100%	90%
Nairobi	78	3%	23%	41%	30%	20%	54%	45%
Nakuru	17	18%	47%	65%	65%	59%	88%	82%
Nandi	5	0%	32%	100%	80%	40%	100%	100%
Narok	7	14%	51%	43%	57%	57%	57%	71%
Nyamira	8	38%	70%	100%	88%	13%	88%	88%
Nyandarua	13	0%	22%	31%	23%	31%	54%	46%
Nyeri	40	2%	36%	44%	37%	12%	41%	39%
Samburu	4	33%	53%	100%	33%	33%	67%	100%
Siaya	8	13%	55%	88%	88%	63%	88%	100%
Taita Taveta	3	0%	40%	60%	60%	40%	60%	60%
Tana River	3	0%	40%	50%	50%	0%	50%	50%
Tharaka Nithi	7	13%	45%	38%	38%	38%	63%	50%
Trans-Nzoia	6	0%	23%	83%	50%	33%	100%	100%
Turkana	7	14%	46%	86%	43%	14%	86%	57%
Uasin Gishu	12	0%	40%	77%	69%	46%	77%	69%
Vihiga	8	0%	28%	63%	38%	25%	63%	63%
Wajir	11	9%	53%	73%	27%	18%	82%	45%
West Pokot	5	0%	44%	100%	80%	20%	100%	80%

### 3.3 To reduce the burden of violence and injuries

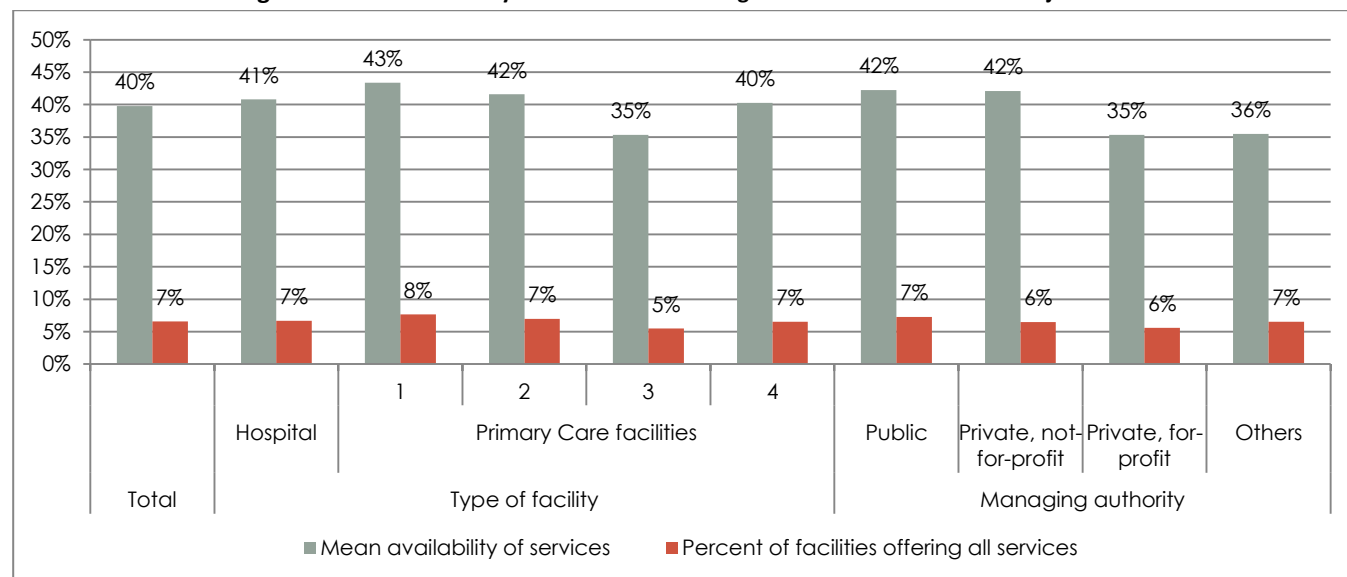
The mean availability of services to reduce the burden of violence and injuries is at 40% across all facilities, with availability higher at primary care facilities as compared to hospitals. Availability of services is similar public and not for profit facilities. On the other hand, only 7% of facilities are providing ALL KEPH services required to reduce the burden of violence and injuries, with dispensaries and public facilities having the highest proportion of facilities providing all of their expected services.

Looking at the specific services, pre-hospital care is most available, while emergency services are least available.

**Table 13: Summary National information on provision of KEPH Services**

Variable	Total	Type of facility					Managing authority			
		Hospital	Primary Care facilities				Public	Private, not-for-profit	Private, for-profit	Others
			1	2	3	4				
<b>Total number of facilities</b>	<b>7995</b>	607	1065	3676	2346	301	3978	1327	2538	152
<b>Mean availability of services</b>	40%	41%	43%	42%	35%	40%	42%	42%	35%	36%
<b>Percent of facilities offering all services</b>	7%	7%	8%	7%	5%	7%	7%	6%	6%	7%
<b>Specific services</b>										
<i>Health Promotion and education on violence / injuries</i>	63%	75%	90%	80%	24%	67%	88%	65%	29%	38%
<i>Pre-hospital care</i>	70%	80%	92%	84%	37%	75%	90%	72%	43%	40%
<i>OPD/accident and emergency</i>	58%	73%	83%	67%	32%	63%	74%	61%	36%	42%
<i>Management for injuries</i>	68%	80%	91%	82%	35%	77%	88%	70%	42%	39%
<i>Rehabilitation</i>	60%	72%	86%	75%	25%	60%	83%	60%	29%	34%

**Figure 8: Mean availability of services for reducing the burden of violence and injuries**



KEY: 1 – Health Centre; 2 – Dispensaries; 3 – medical clinics/standalone VCT's; 4 - Others

Availability of services by County is shown in the preceding two tables – for primary care facilities, and hospitals respectively.

**Table 14: Proportion of Primary Care Facilities providing KEPH Services for reducing the burden of violence and injuries**

County	Total number of facilities	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services for reducing burden of violence and injuries				
				Health Promotion and education on violence / injuries	Pre-hospital care	OPD/accident and emergency	Management for injuries	Rehabilitation
Baringo	162	5%	40%		21%	35%	67%	2%
Bomet	106	6%	46%		38%	19%	75%	3%
Bungoma	130	6%	39%		35%	57%	74%	9%
Busia	73	14%	45%		54%	74%	84%	14%
Elgeyo-Marakwet	107	5%	42%		13%	29%	51%	5%
Embu	141	6%	40%		35%	44%	70%	9%
Garissa	120	10%	49%		30%	41%	81%	8%
Homa Bay	167	12%	49%		75%	74%	85%	25%
Isiolo	38	10%	44%		18%	33%	63%	13%
Kajiado	194	5%	39%		33%	52%	75%	10%
Kakamega	213	3%	34%		53%	60%	76%	14%
Kericho	163	6%	39%		44%	55%	75%	21%
Kiambu	294	5%	38%		39%	51%	75%	13%
Kilifi	188	4%	35%		32%	45%	61%	6%
Kirinyaga	120	6%	41%		27%	49%	62%	6%
Kisii	122	10%	52%		61%	54%	83%	21%
Kisumu	137	10%	47%		72%	66%	80%	25%
Kitui	300	7%	40%		33%	43%	63%	6%
Kwale	91	3%	32%		46%	53%	82%	7%
Laikipia	82	7%	41%		33%	48%	71%	17%
Lamu	39	5%	38%		25%	63%	78%	10%
Machakos	247	6%	39%		27%	40%	64%	12%
Makueni	172	8%	33%		31%	51%	66%	9%
Mandera	59	8%	45%		33%	31%	56%	2%
Marsabit	85	7%	36%		18%	39%	60%	5%
Meru	336	6%	38%		23%	25%	45%	6%
Migori	156	11%	48%		60%	66%	80%	26%
Mombasa	278	3%	38%		15%	22%	43%	5%
Muranga	174	3%	41%		58%	55%	81%	9%
Nairobi	790	7%	35%		31%	28%	40%	10%
Nakuru	300	6%	41%		32%	44%	68%	5%
Nandi	170	7%	40%		30%	40%	61%	7%
Narok	122	5%	40%		41%	46%	71%	12%
Nyamira	106	14%	55%		73%	78%	92%	26%
Nyandarua	103	2%	31%		43%	56%	77%	12%
Nyeri	205	5%	37%		38%	41%	62%	12%
Samburu	67	3%	44%		25%	30%	66%	7%
Siaya	147	13%	55%		61%	68%	85%	21%
Taita Taveta	78	1%	34%		37%	58%	63%	3%
Tana River	46	0%	32%		21%	43%	60%	2%
Tharaka Nithi	109	6%	31%		31%	21%	42%	6%
Trans-Nzoia	131	4%	26%		30%	31%	49%	9%
Turkana	129	6%	46%		33%	38%	58%	9%
Uasin Gishu	134	7%	46%		46%	52%	70%	12%
Vihiga	79	5%	38%		46%	62%	75%	15%
Wajir	99	21%	54%		33%	54%	65%	2%
West Pokot	79	4%	38%		15%	38%	60%	4%

**Table 15: Proportion of hospitals providing KEPH Services for reducing the burden of violence and injuries**

County	Total number of hospitals	% of facilities offering all services	Mean availability of services	% of hospitals providing specific KEPH Services for reducing burden of violence and injuries				
				Health Promotion and education on violence / injuries	Pre-hospital care	OPD/accident and emergency	Management for injuries	Rehabilitation
Baringo	7	0%	46%		86%	86%	100%	14%
Bomet	5	0%	30%		80%	100%	100%	60%
Bungoma	11	0%	41%		73%	91%	82%	55%
Busia	7	0%	46%		86%	86%	100%	29%
Elgeyo-Marakwet	9	0%	44%		11%	56%	100%	22%
Embu	8	13%	28%		0%	63%	100%	50%
Garissa	9	22%	61%		33%	67%	89%	22%
Homa Bay	13	15%	65%		69%	100%	100%	54%
Isiolo	3	50%	63%		50%	50%	100%	50%
Kajiado	30	3%	37%		39%	55%	74%	13%
Kakamega	16	0%	41%		81%	88%	88%	44%
Kericho	11	0%	61%		55%	100%	100%	55%
Kiambu	52	0%	36%		49%	68%	81%	23%
Kilifi	11	0%	36%		36%	82%	100%	36%
Kirinyaga	22	5%	34%		23%	36%	32%	27%
Kisii	18	6%	54%		72%	94%	94%	28%
Kisumu	17	18%	68%		76%	94%	94%	65%
Kitui	13	0%	28%		40%	80%	93%	33%
Kwale	4	33%	42%		67%	100%	100%	100%
Laikipia	4	25%	56%		75%	100%	75%	75%
Lamu	3	0%	42%		67%	100%	100%	33%
Machakos	8	14%	43%		29%	86%	100%	71%
Makueni	12	25%	54%		42%	83%	83%	50%
Mandera	5	20%	70%		60%	100%	100%	20%
Marsabit	4	0%	31%		25%	75%	100%	25%
Meru	25	0%	27%		41%	70%	78%	30%
Migori	13	23%	58%		85%	92%	100%	46%
Mombasa	15	0%	27%		44%	63%	81%	38%
Muranga	10	10%	38%		70%	90%	90%	70%
Nairobi	78	3%	30%		33%	41%	47%	20%
Nakuru	17	12%	41%		35%	88%	94%	59%
Nandi	5	0%	50%		60%	80%	100%	40%
Narok	7	14%	54%		43%	86%	71%	57%
Nyamira	8	38%	69%		100%	100%	100%	13%
Nyandarua	13	0%	25%		15%	31%	77%	31%
Nyeri	40	5%	36%		34%	41%	54%	12%
Samburu	4	0%	58%		33%	67%	100%	33%
Siaya	8	25%	53%		100%	100%	100%	63%
Taita Taveta	3	0%	30%		40%	80%	80%	40%
Tana River	3	0%	38%		50%	50%	100%	0%
Tharaka Nithi	7	25%	59%		63%	63%	75%	38%
Trans-Nzoia	6	0%	25%		50%	50%	100%	33%
Turkana	7	14%	61%		29%	100%	100%	14%
Uasin Gishu	12	8%	37%		62%	85%	92%	46%
Vihiga	8	0%	25%		50%	75%	75%	25%
Wajir	11	9%	52%		36%	91%	91%	18%
West Pokot	5	20%	50%		60%	60%	100%	20%

### 3.4 To provide essential health services

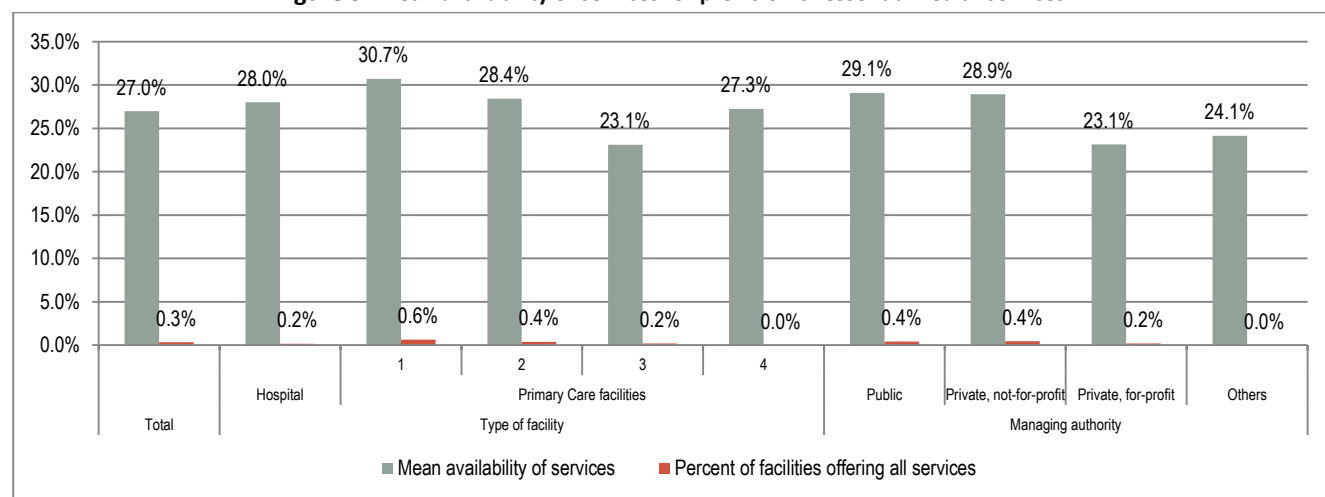
The mean availability of essential health services is low, at 27% across all facilities, with availability higher at primary care facilities as compared to hospitals. Availability of services is marginally higher amongst public facilities as compared to private facilities. On the other hand, only 0.3% of facilities are providing ALL their expected essential health services, with dispensaries marginally having the highest proportion of facilities providing all their expected services.

Looking at the specific services, general outpatient, integrated MNCH and reproductive health services are most available, while laboratory, imaging and palliative care services are least available.

**Table 16: Summary National information on provision of KEPH Services**

Variable	Total	Type of facility					Managing authority			
		Hospital	Primary Care facilities				Public	Private, not-for-profit	Private, for-profit	Others
			1	2	3	4				
<b>Total number of facilities</b>	<b>7995</b>	607	1065	3676	2346	301	3978	1327	2538	152
<b>Mean availability of services</b>	<b>27.0%</b>	28.0%	30.7%	28.4%	23.1%	27.3%	29.1%	28.9%	23.1%	24.1%
<b>Percent of facilities offering all services</b>	<b>0.3%</b>	0.2%	0.6%	0.4%	0.2%	0.0%	0.4%	0.4%	0.2%	0.0%
<b>Specific services</b>										
General outpatient	77%	83%	92%	85%	58%	84%	88%	78%	64%	54%
Integrated MCH/family planning services	64%	77%	84%	76%	36%	71%	84%	59%	42%	38%
Accident and emergency	27%	55%	42%	26%	18%	51%	31%	32%	23%	24%
Emergency life support	15%	41%	26%	14%	11%	35%	18%	21%	14%	17%
Maternity	35%	69%	74%	35%	14%	67%	49%	37%	21%	21%
Newborn services	34%	64%	63%	37%	14%	57%	48%	37%	20%	21%
Reproductive health	58%	76%	80%	67%	33%	68%	76%	53%	39%	36%
Inpatient	14%	67%	41%	7%	7%	58%	18%	25%	14%	12%
Clinical laboratory	41%	78%	75%	34%	34%	68%	42%	56%	42%	31%
Specialized laboratory	4%	25%	9%	2%	4%	17%	5%	8%	7%	4%
Imaging X – ray	2%	36%	3%	1%	2%	18%	4%	7%	6%	2%
Pharmaceutical	40%	68%	61%	43%	25%	59%	50%	48%	29%	30%
Blood safety	6%	42%	10%	3%	5%	26%	8%	12%	8%	7%
Rehabilitation	10%	33%	15%	11%	7%	16%	14%	13%	8%	11%
Palliative care	4%	23%	7%	3%	3%	19%	5%	9%	5%	5%
Specialized clinics	6%	38%	12%	4%	7%	16%	8%	12%	9%	6%
Comprehensive youth friendly services	10%	25%	18%	9%	7%	19%	12%	15%	8%	7%
General operations	5%	38%	7%	3%	4%	30%	7%	11%	8%	1%

**Figure 9: Mean availability of services for provision of essential health services**



KEY: 1 – Health Centre; 2 – Dispensaries; 3 – medical clinics/standalone VCT's; 4 - Others

Availability of services by County is shown in the preceding two tables – for primary care facilities, and hospitals respectively.

**Table 17: Proportion of Primary Care Facilities providing KEPH Essential Health Services**

County	Total number of facilities	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific Essential Health Services																	
				General outpatient	Integrated MCH/family planning services	Accident and emergency	Emergency life support	Maternity	Newborn services	Reproductive health	Inpatient	Clinical laboratory	Specialized laboratory	Imaging X – ray	Pharmaceutical	Blood safety	Rehabilitation	Palliative care	Specialized clinics	Comprehensive youth friendly services	General operations
Baringo	162	0%	29%	83%	71%	25%	7%	20%	43%	69%	8%	22%	1%	0%	42%	1%	2%	0%	0%	2%	2%
Bomet	106	0%	31%	95%	92%	12%	2%	28%	41%	80%	6%	30%	1%	0%	58%	7%	3%	4%	6%	9%	0%
Bungoma	130	1%	23%	86%	74%	44%	15%	57%	54%	75%	20%	64%	5%	1%	54%	4%	9%	8%	4%	12%	5%
Busia	73	0%	29%	88%	79%	59%	25%	51%	39%	75%	28%	50%	7%	4%	50%	11%	14%	3%	3%	12%	4%
Elgeyo-Marakwet	107	0%	29%	74%	57%	18%	11%	24%	24%	66%	16%	20%	1%	0%	44%	2%	5%	1%	0%	3%	2%
Embu	141	1%	29%	87%	77%	29%	17%	15%	29%	65%	10%	56%	2%	1%	47%	6%	9%	3%	5%	4%	5%
Garissa	120	1%	31%	85%	56%	23%	11%	30%	26%	48%	13%	58%	7%	2%	56%	10%	8%	2%	6%	6%	4%
Homa Bay	167	0%	32%	89%	83%	43%	29%	76%	60%	78%	31%	39%	4%	1%	50%	9%	25%	13%	11%	25%	8%
Isiolo	38	0%	32%	95%	85%	18%	18%	38%	40%	73%	20%	45%	3%	3%	60%	0%	13%	0%	0%	0%	0%
Kajiado	194	1%	25%	84%	69%	31%	16%	38%	36%	62%	22%	43%	5%	2%	41%	5%	10%	5%	6%	14%	4%
Kakamega	213	0%	24%	87%	79%	39%	19%	63%	56%	77%	20%	48%	3%	1%	45%	6%	14%	1%	3%	12%	3%
Kericho	163	1%	27%	87%	80%	29%	23%	32%	38%	66%	13%	31%	3%	1%	44%	7%	21%	4%	3%	8%	1%
Kiambu	294	0%	25%	79%	63%	33%	13%	29%	28%	57%	17%	44%	8%	4%	36%	7%	13%	5%	8%	13%	6%
Kilifi	188	0%	27%	78%	63%	35%	16%	47%	38%	58%	10%	37%	2%	1%	35%	5%	6%	5%	4%	11%	4%
Kirinyaga	120	0%	26%	73%	62%	26%	11%	24%	21%	57%	17%	54%	3%	4%	36%	8%	6%	4%	10%	7%	7%
Kisii	122	1%	36%	89%	85%	37%	25%	72%	54%	80%	25%	59%	6%	2%	50%	14%	21%	10%	5%	25%	12%
Kisumu	137	0%	33%	86%	78%	40%	34%	60%	60%	79%	27%	54%	8%	5%	58%	17%	25%	17%	12%	39%	20%
Kitui	300	1%	28%	89%	77%	18%	9%	33%	29%	66%	7%	32%	3%	1%	35%	2%	6%	3%	3%	6%	4%
Kwale	91	0%	26%	96%	83%	41%	25%	74%	61%	79%	10%	52%	3%	2%	57%	7%	7%	3%	5%	18%	7%
Laikipia	82	1%	27%	85%	76%	28%	14%	31%	37%	61%	15%	33%	2%	1%	54%	6%	17%	5%	5%	6%	2%
Lamu	39	0%	26%	85%	60%	45%	13%	45%	48%	73%	15%	33%	3%	3%	53%	0%	10%	5%	3%	8%	5%
Machakos	247	1%	28%	77%	64%	21%	13%	39%	33%	55%	7%	43%	3%	1%	38%	3%	12%	3%	3%	7%	5%
Makueni	172	0%	22%	91%	79%	29%	13%	57%	54%	73%	12%	54%	3%	1%	37%	3%	9%	3%	6%	9%	13%
Mandera	59	0%	29%	72%	39%	28%	19%	36%	25%	34%	19%	33%	8%	2%	30%	9%	2%	2%	6%	6%	3%
Marsabit	85	0%	26%	77%	69%	31%	17%	33%	37%	48%	15%	23%	5%	3%	38%	6%	5%	5%	5%	7%	2%
Meru	336	0%	25%	71%	40%	13%	9%	10%	15%	38%	5%	45%	3%	2%	32%	2%	6%	2%	5%	3%	2%
Migori	156	1%	33%	83%	83%	50%	35%	71%	63%	75%	28%	49%	10%	6%	41%	12%	26%	11%	13%	21%	11%
Mombasa	278	0%	27%	55%	33%	12%	10%	17%	15%	30%	8%	38%	5%	2%	22%	4%	5%	2%	6%	9%	3%
Muranga	174	0%	27%	93%	75%	23%	13%	28%	25%	71%	8%	53%	3%	2%	21%	4%	9%	1%	2%	6%	2%
Nairobi	790	0%	23%	49%	37%	20%	13%	15%	15%	30%	13%	33%	7%	6%	30%	8%	10%	6%	16%	10%	6%
Nakuru	300	0%	29%	81%	71%	24%	19%	30%	30%	66%	11%	50%	5%	4%	53%	7%	5%	4%	6%	10%	4%
Nandi	170	1%	29%	79%	68%	20%	11%	21%	23%	54%	14%	40%	3%	1%	38%	3%	7%	3%	3%	4%	4%
Narok	122	0%	26%	83%	82%	27%	13%	39%	43%	70%	20%	35%	9%	5%	46%	4%	12%	8%	5%	13%	3%
Nyamira	106	0%	37%	94%	93%	53%	33%	84%	75%	83%	26%	42%	6%	2%	48%	7%	26%	11%	8%	21%	7%
Nyandarua	103	0%	20%	82%	73%	36%	18%	40%	40%	65%	11%	43%	6%	2%	46%	8%	12%	5%	8%	10%	3%
Nyeri	205	0%	24%	69%	52%	20%	10%	18%	25%	48%	10%	38%	3%	2%	38%	3%	12%	3%	4%	6%	2%
Samburu	67	0%	29%	84%	66%	14%	11%	33%	23%	63%	12%	12%	1%	0%	48%	1%	7%	1%	3%	3%	0%
Siaya	147	1%	34%	90%	85%	48%	31%	76%	68%	79%	30%	57%	7%	4%	61%	12%	21%	11%	19%	25%	11%
Taita Taveta	78	1%	27%	89%	75%	43%	16%	70%	58%	78%	15%	54%	4%	1%	50%	5%	3%	13%	1%	4%	5%
Tana River	46	0%	26%	87%	72%	17%	23%	40%	40%	64%	4%	26%	0%	0%	40%	4%	2%	2%	0%	6%	4%
Tharaka Nithi	109	0%	21%	89%	54%	16%	9%	13%	21%	53%	11%	61%	2%	1%	28%	2%	6%	2%	4%	2%	1%
Trans-Nzoia	131	0%	18%	59%	52%	15%	10%	28%	37%	53%	7%	37%	1%	1%	39%	1%	9%	3%	2%	10%	16%
Turkana	129	0%	30%	75%	57%	24%	15%	26%	24%	50%	12%	22%	1%	0%	37%	9%	9%	3%	1%	4%	7%
Uasin Gishu	134	0%	29%	78%	71%	24%	9%	39%	39%	68%	10%	43%	4%	2%	54%	3%	12%	5%	5%	5%	7%
Vihiga	79	0%	22%	89%	77%	39%	19%	58%	61%	81%	32%	41%	0%	1%	39%	4%	15%	9%	10%	16%	1%
Wajir	99	1%	36%	81%	53%	21%	13%	33%	34%	39%	11%	31%	3%	1%	47%	4%	2%	2%	4%	5%	4%
West Pokot	79	0%	26%	62%	59%	8%	7%	15%	25%	35%	8%	33%	0%	0%	9%	2%	4%	0%	1%	2%	1%

**Table 18: Proportion of hospitals providing KEPH Essential Health Services**

County	Total number of hospitals	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific Essential Health Services																	
				General outpatient	Integrated MCH/family planning services	Accident and emergency	Emergency life support	Maternity	Newborn services	Reproductive health	Inpatient	Clinical laboratory	Specialized laboratory	Imaging X – ray	Pharmaceutical	Blood safety	Rehabilitation	Palliative care	Specialized clinics	Comprehensive youth friendly services	General operations
Baringo	7	0%	28%	100%	86%	71%	43%	86%	86%	86%	86%	100%	57%	43%	100%	71%	14%	29%	57%	14%	43%
Bomet	5	0%	19%	100%	100%	60%	80%	80%	100%	80%	100%	100%	40%	60%	100%	60%	60%	40%	80%	40%	60%
Bungoma	11	0%	22%	100%	100%	82%	36%	100%	73%	100%	100%	100%	18%	45%	91%	73%	55%	18%	45%	45%	55%
Busia	7	0%	23%	100%	100%	86%	43%	100%	100%	100%	100%	100%	29%	86%	100%	86%	29%	14%	57%	43%	57%
Elgeyo-Marakwet	9	0%	22%	100%	89%	56%	33%	100%	78%	89%	100%	100%	44%	33%	89%	33%	22%	22%	22%	0%	44%
Embu	8	0%	24%	100%	75%	25%	38%	75%	50%	88%	88%	100%	25%	63%	100%	38%	50%	38%	38%	25%	38%
Garissa	9	0%	41%	100%	100%	78%	56%	100%	78%	100%	89%	100%	22%	22%	100%	44%	22%	44%	22%	0%	44%
Homa Bay	13	0%	44%	100%	92%	92%	85%	92%	92%	100%	92%	85%	31%	23%	77%	46%	54%	38%	38%	54%	38%
Isiolo	3	0%	53%	100%	100%	100%	50%	100%	100%	100%	100%	100%	50%	50%	100%	50%	50%	50%	50%	50%	50%
Kajiado	30	0%	27%	77%	58%	48%	29%	35%	35%	71%	42%	68%	19%	19%	61%	23%	13%	6%	19%	19%	26%
Kakamega	16	0%	27%	94%	100%	81%	38%	100%	88%	100%	100%	100%	19%	31%	100%	38%	44%	13%	38%	38%	38%
Kericho	11	0%	41%	100%	100%	73%	64%	100%	82%	82%	100%	100%	27%	64%	91%	64%	55%	27%	36%	18%	64%
Kiambu	52	2%	23%	87%	72%	49%	30%	47%	47%	79%	40%	58%	15%	25%	47%	21%	23%	19%	25%	19%	26%
Kilifi	11	0%	26%	91%	100%	91%	64%	82%	91%	73%	73%	91%	45%	55%	82%	55%	36%	36%	36%	18%	55%
Kirinyaga	22	0%	23%	45%	45%	27%	14%	18%	27%	36%	27%	59%	5%	9%	27%	18%	27%	5%	18%	23%	23%
Kisii	18	0%	43%	100%	94%	67%	78%	100%	67%	94%	100%	100%	33%	39%	89%	50%	28%	39%	56%	50%	44%
Kisumu	17	0%	47%	94%	94%	71%	65%	100%	88%	100%	100%	100%	35%	53%	100%	82%	65%	24%	47%	47%	59%
Kitui	13	0%	26%	87%	80%	67%	40%	93%	80%	87%	87%	93%	33%	33%	73%	47%	33%	27%	67%	20%	33%
Kwale	4	0%	33%	100%	100%	100%	67%	100%	100%	100%	100%	100%	67%	67%	100%	100%	100%	0%	100%	33%	100%
Laikipia	4	0%	32%	100%	100%	75%	75%	100%	100%	100%	100%	100%	50%	50%	100%	50%	75%	25%	75%	25%	50%
Lamu	3	0%	30%	100%	100%	100%	33%	100%	100%	100%	100%	100%	33%	67%	100%	33%	33%	67%	67%	0%	67%
Machakos	8	0%	30%	100%	86%	71%	29%	86%	71%	86%	100%	100%	57%	100%	100%	71%	71%	57%	71%	29%	71%
Makueni	12	0%	40%	100%	92%	42%	25%	92%	92%	83%	67%	100%	42%	25%	67%	25%	50%	17%	67%	33%	50%
Mandera	5	0%	44%	100%	100%	80%	60%	100%	80%	100%	80%	80%	20%	20%	100%	80%	20%	40%	20%	40%	20%
Marsabit	4	0%	19%	100%	100%	75%	25%	100%	100%	75%	100%	100%	25%	50%	75%	100%	25%	0%	0%	0%	50%
Meru	25	0%	19%	81%	70%	44%	33%	74%	63%	70%	56%	85%	15%	44%	70%	33%	30%	19%	33%	26%	30%
Migori	13	0%	43%	100%	92%	69%	54%	100%	100%	92%	100%	100%	23%	23%	92%	69%	46%	15%	46%	38%	54%
Mombasa	15	0%	19%	88%	63%	63%	44%	75%	75%	69%	75%	81%	50%	75%	75%	56%	38%	38%	50%	25%	63%
Muranga	10	0%	22%	80%	90%	70%	50%	70%	60%	80%	70%	80%	50%	30%	60%	60%	70%	50%	50%	40%	60%
Nairobi	78	0%	18%	49%	49%	37%	29%	37%	37%	46%	38%	49%	17%	32%	42%	29%	20%	22%	32%	25%	22%
Nakuru	17	0%	31%	94%	94%	71%	65%	88%	82%	94%	100%	88%	24%	71%	82%	59%	59%	35%	71%	41%	71%
Nandi	5	0%	32%	100%	100%	80%	60%	100%	80%	100%	100%	100%	20%	40%	100%	20%	40%	40%	40%	40%	40%
Narok	7	0%	37%	86%	100%	43%	57%	100%	86%	86%	71%	71%	14%	43%	71%	57%	57%	14%	29%	0%	43%
Nyamira	8	0%	49%	100%	100%	75%	75%	88%	88%	100%	100%	100%	25%	13%	75%	38%	13%	25%	13%	25%	25%
Nyandarua	13	0%	17%	69%	69%	23%	23%	46%	38%	46%	38%	46%	15%	23%	31%	23%	31%	8%	23%	15%	38%
Nyeri	40	0%	24%	71%	39%	24%	15%	24%	29%	46%	22%	49%	12%	20%	34%	20%	12%	12%	27%	15%	22%
Samburu	4	0%	48%	100%	100%	67%	67%	100%	100%	100%	100%	100%	33%	67%	100%	67%	33%	67%	67%	0%	67%
Siaya	8	0%	47%	88%	100%	63%	88%	88%	75%	100%	100%	100%	38%	63%	88%	88%	63%	50%	63%	63%	50%
Taita Taveta	3	0%	29%	80%	100%	60%	60%	100%	80%	80%	100%	100%	20%	60%	80%	60%	40%	0%	60%	60%	20%
Tana River	3	0%	36%	100%	100%	50%	50%	50%	100%	50%	100%	100%	0%	0%	50%	50%	0%	0%	50%	0%	100%
Tharaka Nithi	7	0%	37%	100%	100%	63%	63%	100%	100%	88%	88%	100%	25%	38%	63%	50%	38%	13%	38%	25%	38%
Trans-Nzoia	6	0%	16%	100%	100%	33%	33%	83%	83%	100%	83%	83%	17%	33%	83%	33%	33%	33%	50%	17%	50%
Turkana	7	0%	36%	100%	100%	71%	29%	100%	86%	100%	100%	71%	14%	14%	71%	43%	14%	0%	14%	0%	29%
Uasin Gishu	12	0%	28%	92%	85%	69%	54%	77%	77%	85%	77%	92%	38%	46%	85%	62%	46%	38%	46%	15%	54%
Vihiga	8	0%	20%	100%	75%	38%	38%	88%	75%	100%	75%	63%	38%	25%	63%	38%	25%	38%	50%	25%	13%
Wajir	11	0%	40%	91%	82%	55%	27%	82%	73%	82%	64%	73%	27%	18%	91%	36%	18%	0%	0%	0%	18%
West Pokot	5	0%	30%	100%	100%	0%	20%	80%	60%	80%	100%	100%	0%	20%	80%	40%	20%	0%	20%	0%	40%



### 3.5 To minimize exposure to health risk factors

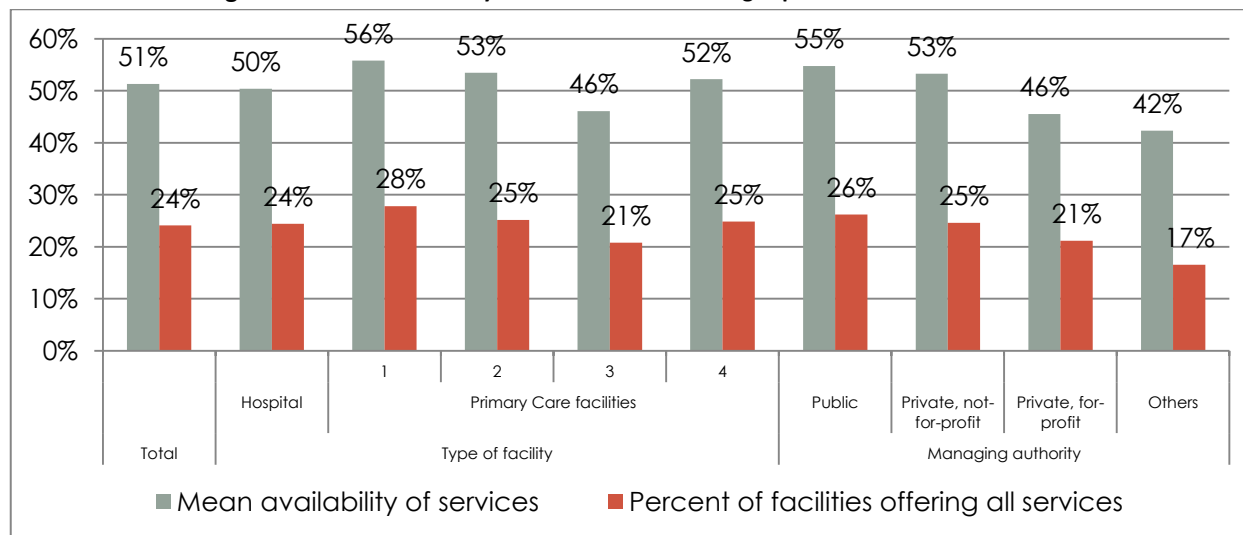
The mean availability of services to minimize the exposure to health risk factors is only 24% across all facilities, with availability higher at primary care facilities as compared to hospitals. Availability of services is higher amongst public facilities as compared to private facilities. On the other hand, 24% of facilities are providing ALL their required KEPH services to minimize exposure to health risk factors, with dispensaries and public facilities having the highest proportion of facilities providing all services.

Looking at the specific services, health promotion and education are most available, while no facilities reported promoting physical activity services as being available.

**Table 19: Summary National information on provision of KEPH Services**

Variable	Total	Type of facility					Managing authority			
		Hospital	Primary Care facilities				Public	Private, not-for-profit	Private, for-profit	Others
			1	2	3	4				
<b>Total number of facilities</b>	<b>7995</b>	607	1065	3676	2346	301	3978	1327	2538	152
<b>Mean availability of services</b>	51%	50%	56%	53%	46%	52%	55%	53%	46%	42%
<b>Percent of facilities offering all services</b>	24%	24%	28%	25%	21%	25%	26%	25%	21%	17%
<b>Specific services</b>										
<i>Health promotion including health education</i>	71%	79%	87%	81%	50%	74%	85%	76%	52%	50%
<i>Sexual education</i>	55%	65%	69%	61%	39%	59%	66%	59%	40%	39%
<i>Substance abuse</i>	33%	47%	45%	37%	21%	35%	40%	39%	22%	23%
<i>Micronutrient deficiency control</i>	43%	58%	63%	53%	18%	38%	60%	44%	21%	24%
<i>Physical activity</i>										

**Figure 10: Mean availability of services for minimizing exposure to health risk factors**



KEY: 1 – Health Centre; 2 – Dispensaries; 3 – medical clinics/standalone VCT's; 4 - Others

Availability of services by County is shown in the proceeding two tables – for primary care facilities, and hospitals respectively.

**Table 20: Proportion of Primary Care Facilities providing KEPH Services for minimizing exposure to health risk factors**

County	Total number of facilities	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services for minimizing exposure to health risk factors				
				Health promotion including health education	Sexual education	Substance abuse	Micronutrient deficiency control	Physical activity
Baringo	162	20%	52%	73%	38%	13%	62%	
Bomet	106	26%	60%	92%	70%	30%	55%	
Bungoma	130	20%	51%	81%	74%	38%	53%	
Busia	73	30%	58%	92%	82%	47%	74%	
Elgeyo-Marakwet	107	23%	57%	68%	41%	18%	23%	
Embu	141	24%	52%	81%	68%	46%	37%	
Garissa	120	27%	58%	72%	43%	28%	38%	
Homa Bay	167	35%	62%	92%	86%	58%	60%	
Isiolo	38	25%	46%	70%	43%	25%	48%	
Kajiado	194	19%	49%	74%	59%	47%	55%	
Kakamega	213	23%	50%	86%	77%	43%	53%	
Kericho	163	23%	55%	82%	67%	40%	50%	
Kiambu	294	24%	49%	79%	62%	45%	49%	
Kiifi	188	21%	48%	66%	46%	14%	32%	
Kirinyaga	120	24%	50%	76%	51%	39%	33%	
Kisii	122	34%	66%	87%	85%	52%	64%	
Kisumu	137	33%	63%	88%	80%	58%	64%	
Kitui	300	25%	50%	79%	62%	34%	52%	
Kwale	91	14%	46%	87%	67%	34%	71%	
Laikipia	82	21%	49%	80%	60%	44%	62%	
Lamu	39	13%	39%	73%	30%	20%	33%	
Machakos	247	28%	53%	67%	45%	23%	28%	
Makueni	172	22%	47%	78%	60%	33%	62%	
Mandera	59	33%	58%	70%	22%	19%	42%	
Marsabit	85	34%	57%	71%	46%	28%	49%	
Meru	336	22%	49%	56%	39%	24%	25%	
Migori	156	29%	60%	88%	82%	52%	58%	
Mombasa	278	20%	47%	45%	33%	17%	15%	
Muranga	174	23%	52%	85%	65%	49%	65%	
Nairobi	790	21%	43%	50%	36%	22%	25%	
Nakuru	300	25%	55%	73%	58%	32%	32%	
Nandi	170	23%	51%	78%	54%	27%	28%	
Narok	122	26%	51%	80%	57%	29%	43%	
Nyamira	106	42%	69%	92%	91%	70%	67%	
Nyandarua	103	19%	43%	73%	53%	47%	55%	
Nyeri	205	24%	46%	67%	52%	34%	32%	
Samburu	67	30%	55%	79%	62%	27%	64%	
Siaya	147	33%	64%	91%	86%	56%	65%	
Taita Taveta	78	18%	44%	79%	62%	24%	46%	
Tana River	46	19%	51%	55%	40%	17%	62%	
Tharaka Nithi	109	16%	42%	48%	43%	34%	30%	
Trans-Nzoia	131	16%	38%	53%	47%	33%	27%	
Turkana	129	26%	57%	71%	48%	34%	49%	
Uasin Gishu	134	24%	56%	72%	58%	24%	36%	
Vihiga	79	18%	45%	89%	73%	41%	48%	
Wajir	99	40%	67%	67%	26%	16%	58%	
West Pokot	79	15%	53%	71%	41%	15%	56%	

**Table 21: Proportion of hospitals providing KEPH Services for minimizing exposure to health risk factors**

County	Total number of hospitals	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services for minimizing exposure to health risk factors				
				Health promotion including health education	Sexual education	Substance abuse	Micronutrient deficiency control	Physical activity
Baringo	7	14%	54%	100%	71%	57%	100%	
Bomet	5	20%	50%	100%	100%	80%	80%	
Bungoma	11	27%	41%	100%	91%	73%	82%	
Busia	7	29%	68%	100%	86%	57%	100%	
Elgeyo-Marakwet	9	33%	64%	89%	56%	0%	44%	
Embu	8	13%	41%	100%	88%	63%	75%	
Garissa	9	22%	58%	89%	67%	44%	78%	
Homa Bay	13	54%	79%	100%	100%	62%	77%	
Isiolo	3	50%	63%	50%	100%	100%	100%	
Kajiado	30	10%	38%	52%	39%	23%	26%	
Kakamega	16	44%	64%	94%	81%	50%	69%	
Kericho	11	27%	64%	91%	64%	73%	73%	
Kiambu	52	15%	43%	81%	62%	53%	58%	
Kilifi	11	27%	43%	100%	82%	55%	64%	
Kirinyaga	22	9%	35%	68%	55%	50%	36%	
Kisii	18	44%	74%	94%	94%	67%	72%	
Kisumu	17	71%	87%	100%	88%	59%	88%	
Kitui	13	20%	53%	73%	80%	40%	87%	
Kwale	4	33%	75%	100%	100%	33%	100%	
Laikipia	4	75%	81%	75%	75%	75%	75%	
Lamu	3	0%	33%	100%	33%	67%	33%	
Machakos	8	14%	61%	86%	86%	71%	86%	
Makueni	12	8%	44%	83%	58%	42%	83%	
Mandera	5	20%	70%	80%	60%	40%	60%	
Marsabit	4	0%	44%	75%	50%	25%	75%	
Meru	25	22%	46%	74%	63%	37%	63%	
Migori	13	31%	62%	100%	100%	62%	77%	
Mombasa	15	13%	27%	69%	44%	31%	50%	
Muranga	10	30%	48%	90%	60%	60%	80%	
Nairobi	78	18%	35%	51%	36%	29%	26%	
Nakuru	17	24%	65%	88%	76%	53%	59%	
Nandi	5	60%	85%	100%	80%	60%	60%	
Narok	7	29%	64%	86%	57%	43%	57%	
Nyamira	8	38%	72%	100%	100%	75%	63%	
Nyandarua	13	15%	42%	77%	54%	38%	31%	
Nyeri	40	24%	45%	63%	56%	39%	34%	
Samburu	4	67%	83%	100%	100%	100%	100%	
Siaya	8	13%	50%	100%	88%	63%	88%	
Taita Taveta	3	40%	45%	100%	60%	40%	80%	
Tana River	3	50%	63%	50%	50%	0%	50%	
Tharaka Nithi	7	38%	66%	75%	63%	38%	38%	
Trans-Nzoia	6	0%	29%	100%	100%	67%	83%	
Turkana	7	29%	46%	71%	71%	57%	43%	
Uasin Gishu	12	31%	52%	92%	92%	62%	77%	
Vihiga	8	13%	44%	88%	63%	50%	88%	
Wajir	11	27%	66%	100%	55%	36%	73%	
West Pokot	5	0%	45%	100%	60%	40%	100%	

### 3.6 To strengthen collaboration with health related sectors

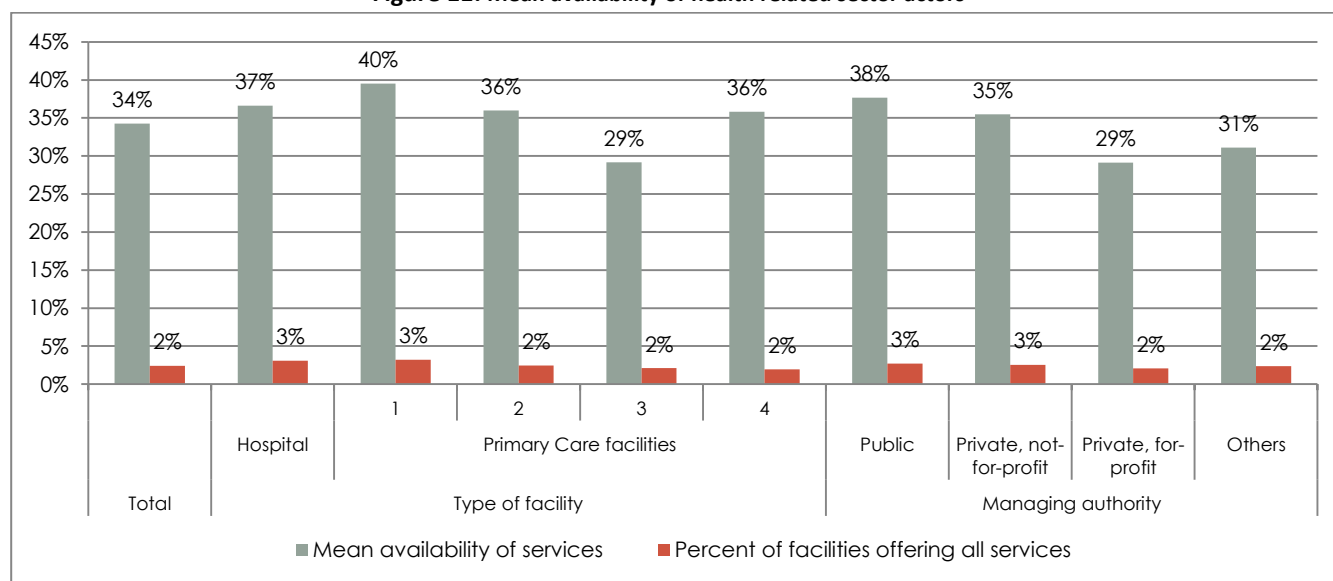
The mean availability of health related services in the area of responsibility of facilities is at 34% across all facilities, with availability higher at primary care facilities as compared to hospitals. Availability of services is higher amongst public facilities as compared to private facilities. On the other hand, only 2% of facilities are collaborating with ALL health related sectors in their areas of responsibility.

Looking at the specific services, initiatives to support safe water and sanitation/hygiene are most common, while transport and food fortification initiatives are least available for collaboration with facilities.

**Table 22: Summary National information on provision of KEPH Services**

Variable	Total	Type of facility					Managing authority			
		Hospital	Primary Care facilities				Public	Private, not-for-profit	Private, for-profit	Others
			1	2	3	4				
Total number of facilities	7995	607	1065	3676	2346	301	3978	1327	2538	152
Mean availability of services	34%	37%	40%	36%	29%	36%	38%	35%	29%	31%
Percent of facilities offering all services	2%	3%	3%	2%	2%	2%	3%	3%	2%	2%
<b>Specific services</b>										
Safe water	65%	75%	82%	73%	44%	67%	78%	68%	47%	47%
Sanitation and hygiene	67%	75%	84%	76%	44%	69%	81%	69%	47%	46%
Nutrition services	48%	65%	72%	58%	22%	49%	66%	50%	26%	30%
Pollution control	30%	48%	46%	34%	16%	35%	38%	35%	18%	29%
Housing	22%	41%	40%	26%	7%	26%	31%	29%	9%	15%
School health	36%	44%	58%	48%	9%	22%	55%	36%	10%	20%
Food fortification	10%	21%	19%	12%	3%	13%	16%	10%	4%	6%
Population management	18%	28%	29%	21%	8%	24%	26%	19%	9%	15%
Road infrastructure and transport	8%	21%	12%	10%	4%	14%	11%	12%	5%	7%

**Figure 11: Mean availability of health related sector actors**



KEY: 1 – Health Centre; 2 – Dispensaries; 3 – medical clinics/standalone VCT's; 4 - Others

Availability of services by County is shown in the preceding two tables – for primary care facilities, and hospitals respectively.

**Table 23: Proportion of Primary Care Facilities with health related sector actors in their areas of responsibility**

County	Total number of primary Health facilities	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services minimizing exposure to health risk factors								
				Safe water	Sanitation and hygiene	Nutrition services	Pollution control	Housing	School health	Food fortification	Population management	Road infrastructure and transport
Baringo	162	2%	38%	78%	83%	75%	32%	20%	63%	6%	14%	12%
Bomet	106	1%	43%	84%	90%	49%	45%	38%	64%	26%	37%	30%
Bungoma	130	1%	33%	73%	78%	56%	33%	28%	51%	2%	25%	9%
Busia	73	1%	35%	88%	86%	58%	37%	30%	62%	22%	41%	14%
Elgeyo-Marakwet	107	2%	41%	74%	76%	24%	25%	25%	45%	14%	15%	6%
Embu	141	2%	34%	73%	71%	37%	25%	19%	29%	3%	8%	0%
Garissa	120	3%	39%	65%	73%	47%	38%	17%	38%	10%	19%	12%
Homa Bay	167	6%	46%	91%	89%	75%	57%	53%	64%	20%	55%	11%
Isiolo	38	0%	26%	78%	73%	73%	13%	15%	38%	3%	3%	0%
Kajiado	194	0%	33%	67%	69%	62%	38%	26%	39%	12%	27%	6%
Kakamega	213	1%	31%	79%	82%	57%	34%	21%	41%	9%	29%	10%
Kericho	163	2%	39%	79%	77%	57%	37%	37%	60%	23%	35%	20%
Kiambu	294	4%	31%	69%	69%	53%	31%	25%	29%	15%	17%	10%
Kilifi	188	1%	28%	55%	59%	39%	18%	12%	31%	5%	5%	4%
Kirinyaga	120	2%	32%	66%	61%	39%	25%	18%	39%	7%	19%	8%
Kisii	122	4%	49%	85%	78%	67%	49%	37%	49%	27%	36%	15%
Kisumu	137	3%	44%	85%	86%	72%	59%	42%	57%	30%	49%	18%
Kitui	300	2%	31%	70%	72%	57%	24%	12%	32%	9%	14%	6%
Kwale	91	1%	28%	77%	83%	76%	30%	21%	58%	27%	22%	1%
Laikipia	82	1%	38%	70%	74%	52%	28%	29%	49%	8%	9%	7%
Lamu	39	0%	29%	63%	65%	48%	15%	15%	48%	10%	8%	10%
Machakos	247	3%	32%	61%	62%	37%	23%	13%	19%	4%	8%	4%
Makueni	172	3%	27%	71%	76%	59%	36%	21%	44%	6%	15%	7%
Mandera	59	6%	43%	38%	44%	55%	22%	22%	22%	8%	9%	2%
Marsabit	85	0%	30%	61%	64%	71%	16%	10%	26%	3%	14%	3%
Meru	336	2%	30%	49%	47%	26%	22%	10%	18%	4%	7%	3%
Migori	156	4%	45%	86%	86%	61%	60%	43%	62%	27%	52%	21%
Mombasa	278	0%	30%	40%	38%	15%	12%	5%	9%	3%	4%	3%
Muranga	174	1%	31%	71%	71%	54%	37%	25%	32%	13%	25%	8%
Nairobi	790	4%	29%	47%	48%	32%	19%	12%	13%	6%	9%	5%
Nakuru	300	2%	37%	64%	66%	42%	33%	18%	32%	5%	15%	23%
Nandi	170	3%	38%	70%	69%	44%	32%	29%	47%	5%	16%	12%
Narok	122	2%	36%	65%	68%	50%	27%	36%	49%	16%	12%	5%
Nyamira	106	6%	50%	87%	90%	72%	65%	48%	60%	35%	52%	14%
Nyandarua	103	2%	23%	69%	67%	55%	46%	36%	50%	20%	22%	9%
Nyeri	205	5%	32%	59%	61%	41%	25%	18%	29%	7%	12%	7%
Samburu	67	1%	37%	74%	78%	66%	18%	25%	53%	3%	8%	0%
Siaya	147	2%	46%	89%	91%	73%	51%	39%	59%	19%	38%	15%
Taita Taveta	78	1%	31%	78%	75%	50%	14%	17%	42%	3%	5%	5%
Tana River	46	2%	27%	55%	64%	72%	9%	9%	28%	21%	15%	15%
Tharaka Nithi	109	3%	27%	55%	53%	45%	27%	16%	19%	13%	9%	4%
Trans-Nzoia	131	2%	26%	46%	50%	33%	29%	16%	33%	6%	22%	8%
Turkana	129	2%	42%	60%	74%	69%	32%	22%	44%	12%	13%	3%
Uasin Gishu	134	3%	36%	65%	71%	43%	32%	24%	46%	7%	16%	5%
Vihiga	79	0%	31%	82%	78%	57%	30%	30%	35%	6%	29%	8%
Wajir	99	5%	47%	43%	60%	57%	14%	15%	34%	4%	8%	5%
West Pokot	79	3%	39%	63%	65%	46%	19%	24%	40%	3%	0%	1%

**Table 24: Proportion of hospitals with health related sector actors in their areas of responsibility**

County	Total number of hospitals	% of facilities offering all services	Mean availability of services	% of primary care facilities providing specific KEPH Services minimizing exposure to health risk factors								
				Safe water	Sanitation and hygiene	Nutrition services	Pollution control	Housing	School health	Food fortification	Population management	Road infrastructure and transport
Baringo	7	0%	43%	100%	100%	100%	71%	57%	71%	14%	43%	14%
Bomet	5	0%	31%	100%	100%	100%	80%	100%	80%	80%	60%	40%
Bungoma	11	0%	34%	100%	100%	100%	73%	73%	91%	9%	82%	82%
Busia	7	0%	40%	100%	100%	100%	57%	86%	71%	0%	57%	29%
Elgeyo-Marakwet	9	0%	54%	89%	100%	89%	78%	67%	67%	22%	11%	11%
Embu	8	0%	19%	100%	100%	88%	38%	38%	38%	0%	13%	0%
Garissa	9	11%	52%	89%	100%	100%	67%	33%	56%	22%	44%	22%
Homa Bay	13	15%	58%	92%	100%	92%	100%	62%	85%	54%	69%	31%
Isiolo	3	0%	44%	100%	100%	100%	50%	100%	100%	0%	50%	0%
Kajiado	30	0%	26%	35%	39%	32%	19%	13%	19%	6%	13%	6%
Kakamega	16	6%	47%	88%	81%	75%	44%	50%	56%	31%	56%	6%
Kericho	11	18%	60%	100%	100%	91%	82%	91%	64%	27%	55%	55%
Kiambu	52	2%	28%	74%	75%	60%	43%	36%	30%	21%	21%	19%
Kilifi	11	0%	26%	100%	91%	55%	0%	27%	36%	0%	0%	27%
Kirinyaga	22	0%	25%	45%	41%	32%	18%	18%	27%	14%	14%	14%
Kisii	18	6%	54%	100%	100%	67%	78%	72%	67%	39%	61%	56%
Kisumu	17	0%	65%	100%	100%	100%	82%	71%	59%	59%	53%	41%
Kitui	13	0%	30%	93%	93%	87%	60%	40%	67%	40%	53%	33%
Kwale	4	0%	52%	100%	67%	100%	67%	100%	67%	100%	100%	33%
Laikipia	4	0%	53%	75%	75%	75%	50%	50%	50%	0%	0%	25%
Lamu	3	0%	30%	67%	100%	100%	0%	33%	67%	0%	0%	0%
Machakos	8	14%	40%	100%	100%	86%	86%	71%	29%	43%	43%	14%
Makueni	12	0%	42%	92%	92%	83%	83%	50%	67%	17%	50%	33%
Mandera	5	0%	78%	80%	80%	100%	40%	60%	60%	20%	20%	40%
Marsabit	4	0%	19%	75%	75%	100%	25%	25%	50%	25%	25%	0%
Meru	25	0%	31%	74%	78%	56%	59%	41%	52%	15%	26%	7%
Migori	13	0%	47%	100%	100%	77%	85%	77%	85%	69%	85%	62%
Mombasa	15	0%	22%	69%	63%	63%	44%	19%	25%	25%	6%	6%
Muranga	10	0%	44%	70%	90%	70%	40%	50%	50%	30%	10%	10%
Nairobi	78	4%	25%	43%	45%	33%	20%	13%	20%	5%	8%	7%
Nakuru	17	0%	46%	94%	94%	82%	53%	53%	59%	29%	24%	41%
Nandi	5	0%	58%	100%	100%	100%	60%	80%	40%	0%	60%	40%
Narok	7	14%	49%	100%	86%	86%	57%	43%	57%	14%	14%	14%
Nyamira	8	25%	65%	100%	88%	75%	88%	63%	75%	50%	75%	25%
Nyandarua	13	0%	21%	54%	54%	38%	31%	23%	15%	8%	8%	15%
Nyeri	40	5%	30%	49%	51%	37%	20%	12%	17%	5%	5%	5%
Samburu	4	0%	41%	100%	100%	100%	100%	67%	67%	33%	0%	0%
Siaya	8	0%	51%	100%	88%	100%	88%	88%	50%	25%	75%	88%
Taita Taveta	3	0%	31%	80%	100%	80%	20%	40%	40%	40%	0%	0%
Tana River	3	0%	44%	100%	50%	50%	50%	0%	100%	0%	0%	0%
Tharaka Nithi	7	13%	50%	63%	63%	63%	38%	25%	13%	13%	13%	13%
Trans-Nzoia	6	0%	24%	100%	100%	100%	83%	67%	67%	17%	67%	33%
Turkana	7	0%	43%	86%	86%	86%	71%	57%	71%	43%	0%	14%
Uasin Gishu	12	0%	30%	92%	92%	77%	69%	31%	46%	23%	38%	31%
Vihiga	8	0%	18%	88%	75%	63%	75%	50%	63%	50%	38%	38%
Wajir	11	0%	52%	73%	91%	91%	18%	18%	45%	9%	0%	0%
West Pokot	5	0%	53%	100%	100%	80%	60%	100%	80%	20%	20%	60%

## 4. Capacity to provide Health Services

Capacity to provide health services looked at availability of critical inputs required to provide health services. The SARAM provides four areas around which capacity to provide health services was captured.

- (i) Physical Health facility availability: Physical availability of health facilities across the Country
- (ii) Health Infrastructure availability: Availability and functionality of critical physical infrastructure, equipment, transport and ICT across the Country
- (iii) Health Workforce availability: Availability of different health worker cadres and skills across the Country
- (iv) Health Products availability: Availability of critical health products across the Country

### 4.1 Physical health facility availability

The health services must be physically accessible for the population to benefit from the services offered. Different Counties have different numbers of facilities. The total numbers of facilities in each County are shown below.

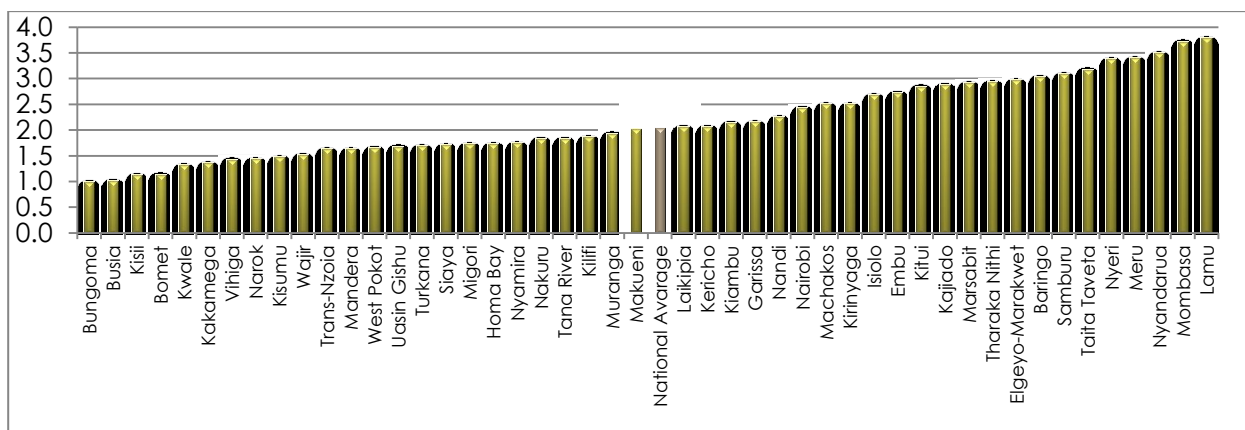
**Table 25: Numbers of Health facilities per County**

Sno	County	Population estimates	Number of Facilities	% of facilities	Sno	County	Population estimates	Number of Facilities	% of facilities
1	Baringo	625,904	169	2.1%	25	Marsabit	319,706	89	1.1%
2	Bomet	1,008,485	111	1.4%	26	Meru	1,460,546	361	4.5%
3	Bungoma	1,527,632	141	1.8%	27	Migori	1,012,113	169	2.1%
4	Busia	824,392	80	1.0%	28	Mombasa	1,005,892	293	3.7%
5	Elgeyo-Marakwet	415,959	116	1.5%	29	Muranga	956,823	184	2.3%
6	Embu	554,583	149	1.9%	30	Nairobi	3,608,362	868	10.9%
7	Garissa	618,868	129	1.6%	31	Nakuru	1,812,902	317	4.0%
8	Homa Bay	1,058,610	180	2.3%	32	Nandi	849,793	175	2.2%
9	Isiolo	157,269	41	0.5%	33	Narok	950,057	129	1.6%
10	Kajiado	788,422	224	2.8%	34	Nyamira	700,597	114	1.4%
11	Kakamega	1,865,958	229	2.9%	35	Nyandarua	332,987	116	1.5%
12	Kericho	850,983	174	2.2%	36	Nyeri	746,694	245	3.1%
13	Kiambu	1,651,014	346	4.3%	37	Samburu	250,478	71	0.9%
14	Kilifi	1,244,420	199	2.5%	38	Siaya	929,402	155	1.9%
15	Kirinyaga	569,871	142	1.8%	39	Taita Taveta	256,340	81	1.0%
16	Kisii	1,268,693	140	1.8%	40	Tana River	269,164	49	0.6%
17	Kisumu	1,059,733	154	1.9%	41	Tharaka Nithi	401,442	116	1.5%
18	Kitui	1,136,087	313	3.9%	42	Trans-Nzoia	868,593	137	1.7%
19	Kwale	728,880	95	1.2%	43	Turkana	911,770	136	1.7%
20	Laikipia	454,887	86	1.1%	44	Uasin Gishu	1,018,651	146	1.8%
21	Lamu	113,845	42	0.5%	45	Vihiga	615,897	87	1.1%
22	Machakos	1,200,556	255	3.2%	46	Wajir	750,933	110	1.4%
23	Makueni	961,155	184	2.3%	47	West Pokot	582,733	84	1.1%
24	Mandera	424,044	64	0.8%		<b>NATIONAL AVERAGE</b>	<b>41,722,125</b>	<b>7995</b>	
<b>Managing authority</b>					<b>Facility type</b>				
Public			3978	49.8%	Hospital			607	7.6%
Private, not-for-profit			1327	16.6%	Health centre			1064	13.3%
Private, for-profit			2538	31.7%	Dispensary			3676	46.0%
Others			152	1.9%	Medical clinic/ Stand-alone VCT			2346	29.3%
<b>Urban/Rural</b>					Maternity/ Nursing home				
Urban			2,834	33.7%					
Rural			5,567	66.3%					

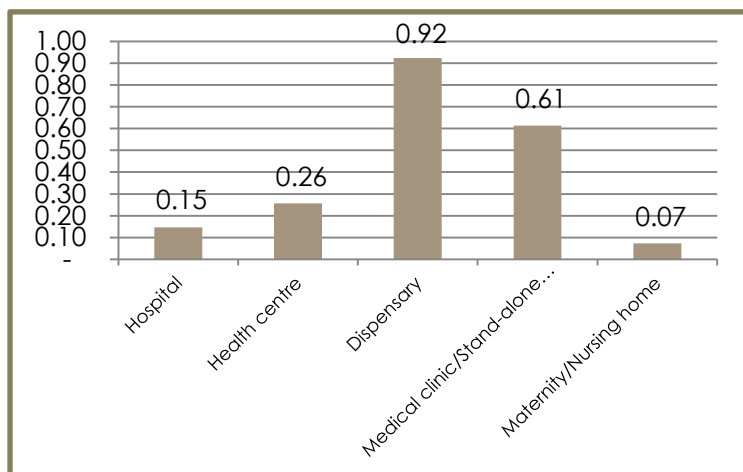
SARAM Kenya identified a total of **8,401** health facilities, with Nairobi having the highest number of facilities (875) which was 10.4% of the total facilities, while Isiolo had the least number of health facilities (42) which constituted 0.5% of the total health facilities. 49% of all the health facilities in the Country are public, 16% are private not-for-profit and 33% are private for-profit. Of the the total health facilities, 66% were from rural areas and urban health facilities constituted 34%. Hospitals constituted 7%, Health Centres 13%, dispensaries making the largest proportion, at 46% of all facilities, private clinics 31% while Maternity and nursing homes 4% with 66% of the facilities rural based.

Health facility density per 10,000 populations by County is shown in figure 12 below. Bungoma had the lowest facility density of less than 1 facility per 10,000 persons, while Mombasa had the highest health facilities density of over 3.5 per 10, 000 population. The national average facility density was 2.04 facilities per 10,000 persons. The facility density by type was dispensaries with 0.93, private clinics 0.62, hospitals 0.15 and health centres 0.26 in that order per 10,000 populations. Public health facilities had the highest density of 0.99 or 1, Private not-for profit 0.33 and private for- profit 0.67 per 10,000 persons.

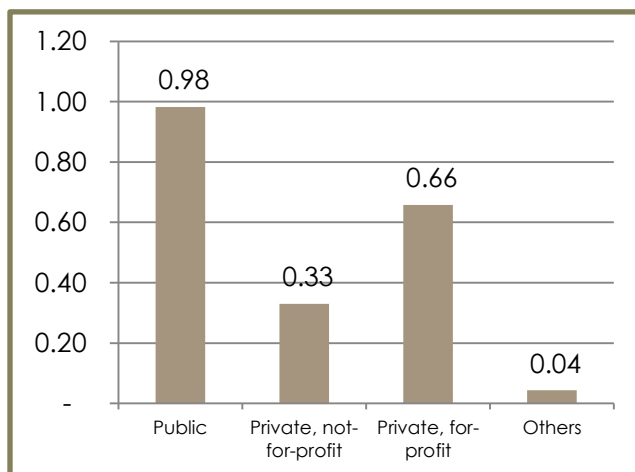
**Figure 12: County Health Facility density, per 10,000 populations**



**Facility density by type of facility**



**Facility density, by ownership**





On County specific facilities, there is wider disperities in types of facilities across the Country. However, most Counties had dispensaries (46%) as the most common facilities. See table 26 for details. On the other hand, ownership of facilities also varies significantly across counties with Mombasa 69% and Nairobi 66%.

The two counties had the highest concentration of private for-profit and Bomet and Tana River having the highest concentration of public facilities with 85% and 82% respectively. Kirinyaga, Kiambu and Isiolo counties had the highest concentration of private not-for-profit facilities thus 26%, 25% and 24% respectively. The distribution of health facilities type and ownership by county is shown in tables 26 and 27 below.

**Table 26: County Health facility numbers, by type of facility**

County	Total Health Facilities	Facility type					% of total facilities				
		Hospital	Primary Care facilities				Hospital	Health centre	Dispensary	Medical clinic/Stand-alone VCT	Maternity /Nursing home
			Health centre	Dispensary	Medical clinic/Stand-alone VCT	Maternity/ Nursing home					
Baringo	169	7	22	126	14	0	4%	13%	75%	8%	0%
Bomet	111	5	14	89	3	0	5%	13%	80%	3%	0%
Bungoma	141	11	20	79	26	5	8%	14%	56%	18%	4%
Busia	80	7	15	47	8	3	9%	19%	59%	10%	4%
Elgeyo-Marakwet	116	9	20	84	3	0	8%	17%	72%	3%	0%
Embu	149	8	12	77	50	2	5%	8%	52%	34%	1%
Garissa	129	9	23	39	52	6	7%	18%	30%	40%	5%
Homa Bay	180	13	40	99	23	5	7%	22%	55%	13%	3%
Isiolo	41	3	6	26	5	1	7%	15%	63%	12%	2%
Kajiado	224	30	31	79	70	14	13%	14%	35%	31%	6%
Kakamega	229	16	37	96	67	13	7%	16%	42%	29%	6%
Kericho	174	11	12	133	16	2	6%	7%	76%	9%	1%
Kiambu	346	52	40	140	84	30	15%	12%	40%	24%	9%
Kilifi	199	11	15	80	89	4	6%	8%	40%	45%	2%
Kirinyaga	142	22	11	61	39	9	15%	8%	43%	27%	6%
Kisii	140	18	31	68	17	6	13%	22%	49%	12%	4%
Kisumu	154	17	34	70	21	12	11%	22%	45%	14%	8%
Kitui	313	13	36	207	51	6	4%	12%	66%	16%	2%
Kwale	95	4	9	56	23	3	4%	9%	59%	24%	3%
Laikipia	86	4	9	56	15	2	5%	10%	65%	17%	2%
Lamu	42	3	4	22	11	2	7%	10%	52%	26%	5%
Machakos	255	8	31	117	94	5	3%	12%	46%	37%	2%
Makueni	184	12	23	108	35	6	7%	13%	59%	19%	3%
Mandera	64	5	19	22	13	5	8%	30%	34%	20%	8%
Marsabit	89	4	15	49	15	6	4%	17%	55%	17%	7%
Meru	361	25	30	114	182	10	7%	8%	32%	50%	3%
Migori	169	13	27	93	26	10	8%	16%	55%	15%	6%
Mombasa	293	15	20	49	196	13	5%	7%	17%	67%	4%
Muranga	184	10	17	117	36	4	5%	9%	64%	20%	2%
Nairobi	868	78	94	116	524	56	9%	11%	13%	60%	6%
Nakuru	317	17	45	135	102	18	5%	14%	43%	32%	6%
Nandi	175	5	19	130	20	1	3%	11%	74%	11%	1%
Narok	129	7	25	86	9	2	5%	19%	67%	7%	2%
Nyamira	114	8	39	42	18	7	7%	34%	37%	16%	6%
Nyandarua	116	13	20	50	32	1	11%	17%	43%	28%	1%
Nyeri	245	40	20	90	90	5	16%	8%	37%	37%	2%
Samburu	71	4	6	51	9	1	6%	8%	72%	13%	1%
Siaya	155	8	37	90	15	5	5%	24%	58%	10%	3%
Taita Taveta	81	3	16	40	18	4	4%	20%	49%	22%	5%
Tana River	49	3	4	40	2	0	6%	8%	82%	4%	0%
Tharaka Nithi	116	7	11	70	28	0	6%	9%	60%	24%	0%
Trans-Nzoia	137	6	12	43	70	6	4%	9%	31%	51%	4%
Turkana	136	7	18	92	18	1	5%	13%	68%	13%	1%
Uasin Gishu	146	12	23	80	28	3	8%	16%	55%	19%	2%
Vihiga	87	8	18	26	32	3	9%	21%	30%	37%	3%
Wajir	110	11	27	37	31	4	10%	25%	34%	28%	4%
West Pokot	84	5	8	55	16	0	6%	10%	65%	19%	0%
<b>Total</b>	<b>7995</b>	<b>607</b>	<b>1065</b>	<b>3676</b>	<b>2346</b>	<b>301</b>	<b>8%</b>	<b>13%</b>	<b>46%</b>	<b>29%</b>	<b>4%</b>

**Table 27: County Health facility numbers, by ownership**

County	Total Health Facilities	Number of Facilities				% of total numbers of facilities			
		Public	Private, not-for-profit	Private, for-profit	Others	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	138	17	13	1	81.7%	10.1%	7.7%	0.6%
Bomet	111	95	12	3	1	85.6%	10.8%	2.7%	0.9%
Bungoma	141	91	20	24	6	64.5%	14.2%	17.0%	4.3%
Busia	80	58	15	6	1	72.5%	18.8%	7.5%	1.3%
Elgeyo-Marakwet	116	99	13	4	0	85.3%	11.2%	3.4%	0.0%
Embu	149	76	32	41	0	51.0%	21.5%	27.5%	0.0%
Garissa	129	69	6	53	1	53.5%	4.7%	41.1%	0.8%
Homa Bay	180	121	42	13	4	67.2%	23.3%	7.2%	2.2%
Isiolo	41	26	9	5	1	63.4%	22.0%	12.2%	2.4%
Kajiado	224	78	40	102	4	34.8%	17.9%	45.5%	1.8%
Kakamega	229	120	35	69	5	52.4%	15.3%	30.1%	2.2%
Kericho	174	132	24	15	3	75.9%	13.8%	8.6%	1.7%
Kiambu	346	88	87	169	2	25.4%	25.1%	48.8%	0.6%
Kilifi	199	87	23	82	7	43.7%	11.6%	41.2%	3.5%
Kirinyaga	142	50	37	55	0	35.2%	26.1%	38.7%	0.0%
Kisii	140	100	21	17	2	71.4%	15.0%	12.1%	1.4%
Kisumu	154	89	37	21	7	57.8%	24.0%	13.6%	4.5%
Kitui	313	233	25	52	3	74.4%	8.0%	16.6%	1.0%
Kwale	95	62	10	22	1	65.3%	10.5%	23.2%	1.1%
Laikipia	86	54	16	13	3	62.8%	18.6%	15.1%	3.5%
Lamu	42	24	5	13	0	57.1%	11.9%	31.0%	0.0%
Machakos	255	128	35	90	2	50.2%	13.7%	35.3%	0.8%
Makueni	184	115	30	38	1	62.5%	16.3%	20.7%	0.5%
Mandera	64	44	1	18	1	68.8%	1.6%	28.1%	1.6%
Marsabit	89	55	14	19	1	61.8%	15.7%	21.3%	1.1%
Meru	361	113	52	193	3	31.3%	14.4%	53.5%	0.8%
Migori	169	108	36	24	1	63.9%	21.3%	14.2%	0.6%
Mombasa	293	48	38	190	17	16.4%	13.0%	64.8%	5.8%
Muranga	184	106	33	43	2	57.6%	17.9%	23.4%	1.1%
Nairobi	868	98	161	571	38	11.3%	18.5%	65.8%	4.4%
Nakuru	317	126	80	101	10	39.7%	25.2%	31.9%	3.2%
Nandi	175	116	32	23	4	66.3%	18.3%	13.1%	2.3%
Narok	129	84	33	9	3	65.1%	25.6%	7.0%	2.3%
Nyamira	114	69	25	20	0	60.5%	21.9%	17.5%	0.0%
Nyandarua	116	59	17	40	0	50.9%	14.7%	34.5%	0.0%
Nyeri	245	101	25	117	2	41.2%	10.2%	47.8%	0.8%
Samburu	71	45	15	10	1	63.4%	21.1%	14.1%	1.4%
Siaya	155	118	22	11	4	76.1%	14.2%	7.1%	2.6%
Taita Taveta	81	55	6	18	2	67.9%	7.4%	22.2%	2.5%
Tana River	49	40	5	4	0	81.6%	10.2%	8.2%	0.0%
Tharaka Nithi	116	57	26	29	4	49.1%	22.4%	25.0%	3.4%
Trans-Nzoia	137	52	22	62	1	38.0%	16.1%	45.3%	0.7%
Turkana	136	94	27	15	0	69.1%	19.9%	11.0%	0.0%
Uasin Gishu	146	90	26	29	1	61.6%	17.8%	19.9%	0.7%
Vihiga	87	44	16	25	2	50.6%	18.4%	28.7%	2.3%
Wajir	110	73	5	32	0	66.4%	4.5%	29.1%	0.0%
West Pokot	84	50	19	15	0	59.5%	22.6%	17.9%	0.0%
<b>Total</b>	<b>7995</b>	<b>3978</b>	<b>1327</b>	<b>2538</b>	<b>152</b>	<b>49.8%</b>	<b>16.6%</b>	<b>31.7%</b>	<b>1.9%</b>

## 4.2 Physical infrastructure availability

Physical infrastructure is required, for actual provision of health services. This takes different forms. Depending on the type of facility. The physical infrastructure captured here is shown in the table below.

**Table 28: Physical infrastructure assessed, at primary care and hospital levels**

Form of stand alone physical infrastructure	Level of care at which infrastructure presence was assessed	
	<i>Primary Care</i>	<i>Hospital</i>
Out patients department	✓	✓
Casualty department		✓
Maternal and Child Health Unit	✓	✓
Maternity Unit	✓	✓
In patient Unit		✓
Administration unit	✓	✓
Diagnostics and investigation Unit		✓
Medical Support Services (Intensive Care Unit, Physical Therapy Unit, mortuary, and maintenance workshop)		✓
Support Unit		✓

The presence of this physical infrastructure in facilities by County, are shown in the proceeding tables.

**Table 29: County specific availability of OPD infrastructure for primary health facilities**

	Number of primary Health facilities	Available numbers of infrastructure in primary facilities having different OPD																		
		waiting room	consultation rooms	Registration room	injection rooms	plaster room	minor theatre	dental unit	ENT services room	laboratory Unit	Outpatient Pharmacies	Psychiatric Clinic room	Ophthalmology Unit	Trauma and Emergency Department	Revenue Office	OPD Registry Room	Specialized Clinic Unit	Dressing room	Nursing station	Appropriately designed disability access
Baringo	162	85	163	54	109	65	5	2	1	33	67	0	0	1	10	12	1	20	6	0
Bomet	106	75	104	30	73	53	1	1	0	32	54	1	0	0	12	12	3	17	2	1
Bungoma	130	107	130	75	85	76	12	3	3	78	77	5	4	6	11	13	4	24	10	9
Busia	73	52	83	47	55	47	17	1	3	42	49	3	0	1	6	13	1	21	9	9
Elgeyo Marakwet	107	48	90	51	60	48	1	1	1	22	50	0	1	1	12	24	0	28	9	3
Embu	141	125	162	54	60	63	9	9	4	77	63	3	3	2	14	15	9	44	13	3
Garissa	120	97	105	36	73	64	8	6	4	64	64	4	1	6	12	15	4	28	21	0
Homa Bay	167	146	188	102	99	101	31	5	7	74	101	8	1	5	34	42	16	37	27	17
Isiolo	38	37	38	22	17	20	0	3	0	18	21	0	0	0	4	8	0	10	9	1
Kajiado	194	175	222	119	127	97	17	14	14	84	102	11	5	6	36	62	21	94	45	19
Kakamega	213	135	209	125	142	104	11	7	7	91	104	7	2	6	18	36	5	46	37	14
Kericho	163	127	157	60	104	99	4	3	8	55	98	3	0	5	16	25	7	49	20	8
Kiambu	294	274	332	185	159	138	20	25	8	143	140	16	5	18	51	69	28	125	72	38
Kilifi	188	159	222	109	114	100	17	4	3	86	108	4	0	4	12	28	9	76	33	9
Kirinyaga	120	96	107	61	62	56	7	6	4	68	59	11	2	0	23	23	5	47	20	8
Kisii	122	110	121	79	88	72	15	4	5	70	74	5	1	8	33	37	13	43	28	6
Kisumu	137	123	172	103	96	83	20	4	5	64	86	9	1	12	42	59	24	44	53	24
Kitui	300	235	313	169	161	136	14	11	9	105	136	3	1	3	28	59	11	100	36	10
Kwale	91	81	101	52	45	63	2	1	0	46	66	2	0	1	6	21	8	33	12	6
Laikipia	82	74	89	48	65	47	11	5	4	32	47	3	1	1	12	20	4	43	16	8
Lamu	39	24	39	14	28	24	3	3	2	12	24	3	0	0	1	5	1	18	7	2
machakos	247	195	289	162	152	123	15	7	9	115	123	2	0	5	15	53	10	99	37	14
makueni	172	124	177	108	100	94	8	6	3	79	98	4	1	3	19	39	8	62	35	8
Mandera	59	47	55	33	32	22	9	2	5	16	23	5	3	2	4	9	4	13	8	2
marsabit	85	40	75	21	51	23	8	1	0	22	23	1	3	3	9	7	2	14	7	0
Meru	336	291	344	147	178	141	18	15	1	143	143	8	2	4	32	33	9	96	41	6
Migori	156	122	164	104	108	68	22	4	3	66	68	3	4	5	19	37	11	30	32	24
Mombasa	278	267	324	197	148	91	19	11	5	119	95	9	3	2	29	57	13	90	47	11
Muranga	174	168	194	112	109	90	4	5	8	97	93	8	2	4	18	47	10	69	22	11
Nairobi	790	816	1083	590	506	318	96	112	63	311	335	47	24	44	112	177	103	261	205	87
Nakuru	300	266	339	175	177	161	22	10	11	155	167	8	4	8	51	66	21	105	57	16
Nandi	170	106	164	84	109	95	8	4	2	66	97	4	0	4	17	15	6	48	15	3
Narok	122	96	136	70	78	65	12	8	4	46	68	5	4	7	17	27	9	26	24	12
Nyamira	106	86	112	60	71	57	7	6	4	38	57	6	1	4	11	26	5	34	22	17
Nyandarua	103	114	120	71	72	65	5	7	3	55	68	7	1	7	19	33	11	52	29	10
Nyeri	205	184	204	135	110	94	11	13	10	95	89	9	6	4	37	33	17	68	29	19
Samburu	67	47	61	27	33	21	1	1	1	13	22	0	5	0	8	4	4	13	5	3
Siaya	147	110	182	103	105	87	19	4	7	69	88	8	1	10	40	55	23	54	36	18
Taita Taveta	78	59	84	36	48	54	2	3	0	44	55	4	0	0	7	6	3	33	2	10
Tana River	46	26	48	17	33	22	0	0	0	9	24	0	0	2	6	3	0	15	12	0
Tharaka Nithi	109	91	109	45	71	44	5	2	4	68	46	4	1	1	6	12	4	31	14	9
Trans Nzoia	131	115	137	72	75	61	12	7	5	65	63	3	0	3	23	26	9	43	11	26
Turkana	129	79	86	51	54	37	2	1	3	12	40	1	2	0	8	23	1	15	8	5
Uasi Gishu	134	116	171	104	93	76	20	3	3	64	80	9	0	3	21	44	4	42	28	27
Vihiga	79	60	77	43	55	40	5	1	1	31	40	2	1	0	5	15	6	17	10	3
Wairir	99	51	85	18	43	32	5	4	6	29	33	6	4	5	6	16	5	19	9	3
West Pokot	79	40	68	19	60	27	1	1	0	32	28	0	0	0	4	6	0	4	6	1
Grand Total	7388	6101	8035	4199	4493	3564	561	356	253	3155	3656	264	100	216	936	1467	472	2300	1236	540

**Table 30: County specific availability of OPD infrastructure for Hospital facilities**

	Total number of hospitals	Available numbers of infrastructure in hospitals OPD																		
		waiting room	consultation rooms	Registration room	injection rooms	plaster room	minor theatre	dental unit	ENT services room	laboratory Unit	Outpatient Pharmacies	Psychiatric Clinic room	Ophthalmology Unit	Trauma and Emergency Department	Revenue Office	OPD Registry Room	Specialized Clinic Unit	Dressing room	Nursing station	Appropriately designed disability access
Baringo	7	6	14	6	7	6	4	5	2	6	6	1	4	2	6	12	5	4	4	
Bomet	5	7	15	5	4	6	1	5	4	10	6	1	2	2	8	5	15	3	3	6
Bungoma	11	13	24	10	11	12	8	4	2	11	12	3	4	2	6	4	4	4	7	4
Busia	7	11	24	9	8	10	4	2	1	7	10	1	1	1	7	4	9	3	11	3
Elgeyo Marakwet	9	7	20	11	8	8	4	4	1	7	8	3	2	1	7	5	2	5	5	4
Embu	8	10	16	7	8	9	5	6	2	10	9	2	3	2	10	4	8	8	7	1
Garissa	9	12	17	6	6	8	3	7	3	8	8	2	2	2	6	5	8	3	2	3
Homa Bay	13	16	24	10	11	13	7	3	3	13	13	3	2	1	10	8	11	8	6	4
Isiolo	3	7	7	2	2	2	1	2	1	3	2	1	1	0	1	1	3	1	1	0
Kajiado	30	39	53	31	28	18	12	8	3	18	19	4	4	3	12	13	12	15	11	7
Kakamega	16	34	45	14	15	14	6	5	4	13	14	5	1	5	15	8	5	9	6	4
Kericho	11	16	33	11	11	11	8	3	3	10	11	3	3	3	13	10	6	12	14	0
Kiambu	52	67	82	34	31	25	16	17	9	27	26	8	10	7	18	18	21	23	23	15
Kilifi	11	32	25	11	11	11	7	5	3	11	12	2	4	6	10	8	13	9	7	3
Kirinyaga	22	22	31	13	10	6	5	4	3	14	8	5	4	4	6	5	3	8	6	3
Kisii	18	26	39	20	19	18	7	5	3	19	18	5	3	7	20	14	12	22	17	10
Kisumu	17	42	55	19	15	16	8	6	3	18	17	4	4	9	13	15	12	12	14	12
Kitui	13	10	26	12	12	14	5	4	1	13	15	1	0	0	8	9	6	10	8	3
Kwale	4	4	12	2	2	2	2	3	0	2	2	0	0	1	3	2	4	1	1	0
Laikipia	4	6	9	2	4	4	2	2	1	4	4	1	1	2	3	2	2	3	3	1
Lamu	3	2	8	2	3	3	1	2	0	2	3	1	1	0	2	2	4	2	4	0
machakos	8	16	31	11	10	7	5	6	3	7	7	5	3	1	6	5	10	10	10	7
makueni	12	15	23	13	11	15	4	5	1	10	15	1	1	1	6	9	9	8	9	4
Mandera	5	11	15	7	6	4	4	3	2	5	5	1	1	4	3	3	4	4	5	7
marasabit	4	4	11	7	4	4	1	4	0	3	4	1	1	0	2	4	1	2	1	0
Meru	25	35	76	27	20	21	9	12	6	26	21	1	3	2	25	9	5	12	7	10
Migori	13	15	20	14	14	13	8	4	1	14	13	3	1	4	13	10	6	12	11	9
Mombasa	15	47	93	26	16	15	12	15	7	13	15	8	3	10	11	10	23	13	11	8
Muranga	10	13	27	13	10	10	4	6	3	10	10	3	1	3	7	8	7	9	8	1
Nairobi	78	164	153	81	66	56	26	39	16	45	40	14	17	20	33	34	124	47	47	14
Nakuru	17	39	64	21	17	16	10	14	4	16	16	7	4	7	13	12	14	13	17	7
Nandi	5	7	13	5	4	5	2	3	2	10	5	0	1	0	5	2	2	2	1	3
Narok	7	11	14	8	7	5	3	4	0	8	5	2	2	2	6	2	2	3	8	1
Nyamira	8	9	10	6	7	8	2	1	1	7	8	1	0	1	8	6	3	5	3	2
Nyandarua	13	14	38	11	10	7	7	4	2	8	7	2	3	2	6	5	8	4	2	2
Nyeri	40	46	62	22	20	16	7	10	4	16	16	4	4	3	16	9	17	15	7	11
Samburu	4	4	8	3	3	3	0	2	1	2	3	0	1	0	2	1	1	2	1	1
Siaya	8	7	13	9	6	7	2	3	2	7	7	1	1	3	7	6	3	3	5	3
Taita Taveta	3	7	8	3	3	3	2	2	0	3	3	1	1	0	3	2	1	2	0	2
Tana River	3	2	5	3	3	3	1	1	0	1	3	0	0	0	2	1	0	0	4	0
Tharaka Nithi	7	6	17	4	6	7	4	3	1	7	7	2	1	1	10	4	6	5	8	6
Trans Nzoia	6	10	10	4	4	5	4	3	1	4	5	1	1	0	7	5	6	4	6	3
Turkana	7	12	16	7	7	7	4	1	1	4	7	2	2	0	3	4	3	4	4	6
Uasi Gishu	12	19	73	11	12	11	10	4	4	10	11	3	3	5	11	10	10	8	7	5
Vihiga	8	8	18	9	8	8	4	3	1	6	8	0	1	1	5	3	2	7	7	3
Wajir	11	8	14	4	10	7	2	3	1	7	7	1	1	1	5	1	2	3	5	1
West Pokot	5	5	8	4	6	5	2	1	1	5	5	0	1	0	5	3	3	8	1	0
Grand Total	607	923	1419	570	516	484	255	258	117	480	476	120	114	131	404	316	444	371	355	203

**Table 31: County specific availability of Casualty unit infrastructure in hospitals**

	Total number of hospitals	Available infrastructure in hospitals having casualty						
		Causality Unit with beds	Waiting Room of patients	Consultation Rooms	Injection Rooms	Dressing room	Nursing station	Appropriately designed disability access
Baringo	7	1	2	4	4	2	2	1
Bomet	5	3	4	5	5	3	2	4
Bungoma	11	1	1	5	5	2	1	2
Busia	7	0	1	3	3	1	1	0
Elgeyo Marakwet	9	0	1	2	2	1	1	2
Embu	8	0	2	3	3	1	1	1
Garissa	9	9	3	4	4	2	2	2
Homa Bay	13	0	4	8	7	3	2	2
Isiolo	3	1	1	1	1	1	1	0
Kajiado	30	6	7	10	10	5	6	3
Kakamega	16	1	0	3	3	1	1	1
Kericho	11	3	2	3	3	3	3	0
Kiambu	52	15	8	16	16	7	7	4
Kilifi	11	4	3	5	5	4	3	3
Kirinyaga	22	3	2	3	3	2	0	0
Kisii	18	9	6	9	9	4	8	3
Kisumu	17	10	7	8	8	4	5	5
Kitui	13	0	1	3	3	1	1	1
Kwale	4	3	2	4	4	2	2	0
Laikipia	4	3	1	1	1	1	0	0
Lamu	3	0	0	0	0	0	0	0
machakos	8	2	2	6	6	3	3	2
makueni	12	1	1	0	0	1	0	1
Mandera	5	0	5	4	1	2	2	0
marsabit	4	0	1	2	1	1	0	0
Meru	25	4	6	18	18	3	1	3
Migori	13	5	2	4	4	4	5	2
Mombasa	15	26	12	22	22	15	11	6
Muranga	10	5	5	4	4	4	4	2
Nairobi	78	35	27	45	39	21	18	11
Nakuru	17	4	7	7	7	5	5	3
Nandi	5	0	0	0	0	0	0	0
Narok	7	1	2	2	2	1	1	1
Nyamira	8	14	2	1	1	1	1	1
Nyandarua	13	3	2	2	2	3	2	2
Nyeri	40	5	3	1	1	2	1	1
Samburu	4	0	0	0	0	0	0	0
Siaya	8	0	0	4	4	2	1	1
Taita Taveta	3	1	1	0	0	0	1	1
Tana River	3	0	0	0	0	0	0	0
Tharaka Nithi	7	1	0	0	0	0	0	1
Trans Nzoia	6	0	0	0	0	0	0	0
Turkana	7	3	2	3	3	2	2	0
Uasi Gishu	12	10	2	6	6	4	1	2
Vihiga	8	2	1	3	3	1	1	1
Wajir	11	0	1	1	1	1	1	0
West Pokot	5	0	0	0	0	0	0	0
Grand Total	607	194	142	235	224	126	110	75

**Table 32: County specific availability of MCH/FP infrastructure in primary care facilities**

	No. of Primary Health facilities	Available infrastructure for primary facilities in MCH / FP														
		Immunization and Growth Monitoring Rooms	FP Coordinati on Room	Antenatal Consultation Room	Waiting Bay/Room	Records Office	Central Administration Room	Ablution Room	Consultation Room For Sick Under 5's	ORT Room	PMCT Room	GBV Services Room	Laboratory Room	Dressing room	Nursing station	Appropriately designed disability access
Baringo	162	115	32	43	43	2	2	11	5	1	12	2	10	3	0	0
Bomet	106	91	42	70	53	7	0	3	2	6	19	0	7	7	2	0
Bungoma	130	82	26	41	38	1	3	3	1	18	12	0	9	3	1	5
Busia	73	50	27	28	27	0	4	3	3	11	5	0	3	1	1	1
Elgeyo Marakwet	107	54	27	35	22	6	3	4	1	9	8	1	7	7	6	3
Embu	141	86	50	56	59	6	5	1	16	11	15	2	16	7	8	3
Garissa	120	46	33	33	31	7	6	9	7	9	5	1	16	8	7	3
Homa Bay	167	112	63	73	73	26	19	30	19	48	47	5	17	14	10	7
Isiolo	38	29	13	13	13	7	4	6	4	7	9	0	5	4	2	0
Kajiado	194	96	56	65	72	27	17	19	17	25	29	4	28	20	13	8
Kakamega	213	117	61	87	77	13	10	22	16	37	30	3	15	13	5	3
Kericho	163	117	59	72	62	9	10	9	6	12	31	1	23	9	10	2
Kiambu	294	143	108	109	94	37	20	36	33	43	54	15	42	31	29	25
Kilifi	188	86	63	65	61	14	10	12	13	31	33	3	34	25	10	6
Kirinyaga	120	55	39	39	36	6	2	3	7	10	11	0	16	14	9	95
Kisii	122	91	67	65	66	28	26	28	26	35	40	10	22	19	13	13
Kisumu	137	90	72	73	75	42	30	43	31	43	48	8	38	26	25	22
Kitui	300	170	85	109	104	22	13	17	16	34	42	5	19	20	12	5
Kwale	91	61	28	39	37	7	4	4	13	15	17	2	20	11	7	1
Laikipia	82	54	35	34	43	10	4	22	4	14	15	3	14	14	9	2
Lamu	39	24	13	17	18	1	2	1	2	12	16	1	6	5	2	1
machakos	247	150	93	95	79	19	16	16	19	34	39	4	24	21	17	5
makueni	172	127	68	84	84	11	13	6	21	35	40	1	30	19	12	4
Mandera	59	20	8	16	18	9	3	2	5	4	9	0	8	7	6	2
marsabit	85	46	12	23	18	5	4	2	6	4	17	2	3	6	3	1
Meru	336	136	70	90	71	22	12	10	17	31	36	3	28	19	8	2
Migori	156	97	58	55	68	19	23	30	22	49	42	10	27	14	13	11
Mombasa	278	70	68	76	58	18	16	30	15	29	21	4	30	17	14	4
Muranga	174	112	85	75	72	13	5	2	15	13	26	2	29	23	7	1
Nairobi	790	243	204	224	187	111	86	82	71	67	105	36	115	100	80	33
Nakuru	300	178	99	106	89	29	18	14	23	26	42	9	46	34	23	8
Nandi	170	114	54	92	55	12	8	4	5	3	46	2	17	6	3	3
Narok	122	73	47	50	56	22	13	13	15	22	26	5	15	16	14	10
Nyamira	106	73	51	56	48	18	13	9	14	34	35	3	25	18	10	9
Nyandarua	103	71	48	47	44	12	7	10	12	22	17	4	15	11	7	4
Nyeri	205	96	60	57	62	14	5	11	14	20	21	2	12	11	4	5
Samburu	67	28	8	17	18	3	3	1	5	4	5	1	2	4	2	2
Siaya	147	103	72	84	74	31	28	59	28	56	43	10	26	21	19	10
Taita Taveta	78	54	33	39	39	3	1	7	10	12	14	2	13	7	3	8
Tana River	46	38	17	12	21	1	0	5	12	21	6	0	11	9	6	0
Tharaka Nithi	109	44	40	32	24	3	3	6	5	13	12	1	13	7	5	2
Trans Nzoia	131	71	50	58	54	12	6	16	3	24	24	2	18	11	6	14
Turkana	129	38	15	26	23	2	1	5	2	2	10	0	8	8	2	1
Uasi Gishu	134	97	74	81	83	14	3	26	18	31	41	6	17	23	10	14
Vihiga	79	44	20	27	26	3	3	9	7	9	10	2	5	2	2	0
Wajir	99	30	5	7	15	4	1	5	3	1	2	0	5	3	3	0
West Pokot	79	44	13	18	24	2	0	3	2	6	2	2	5	0	1	1
Grand Total	7388	3966	2371	2713	2514	690	485	669	611	1003	1189	179	914	678	461	359

**Table 33: County specific availability infrastructure for MCH/FP in Hospitals**

	No. of hospitals	Available infrastructure for hospitals in MCH / FP														
		Immunization and Growth Monitoring Rooms	FP Coordinati on Room	Antenatal Consultation Room	Waiting Bay/Room	Records Office	Central Administration Room	Ablution Room	Consultation Room For Sick Under 5's	ORT Room	PMCT Room	GBV Services Room	Laboratory Room	Dressing room	Nursing station	Appropriately designed disability access
Baringo	7	8	5	8	6	4	3	10	3	2	4	0	2	3	3	
Bomet	5	6	4	7	6	2	0	1	3	2	6	1	1	0	2	
Bungoma	11	13	11	10	9	3	3	2	5	4	4	1	2	0	2	
Busia	7	11	4	7	6	2	2	0	3	4	3	0	1	0	1	
Elgeyo Marakwet	9	9	6	18	9	3	1	5	1	1	5	0	3	1	2	
Embu	8	10	8	9	9	6	7	3	3	1	4	2	3	4	2	
Garissa	9	9	7	7	8	1	3	5	8	6	2	2	3	5	2	
Homa Bay	13	11	12	12	11	13	4	9	4	6	13	2	2	2	15	
Isiolo	3	4	2	1	3	1	0	2	1	0	1	1	0	1	0	
Kajiado	30	13	9	11	13	6	5	6	2	3	2	6	3	6	3	
Kakamega	16	16	12	14	16	5	4	6	3	7	6	2	2	1	3	
Kericho	11	11	9	9	10	8	3	8	4	3	9	3	2	2	1	
Kiambu	52	27	20	25	24	8	9	17	9	10	11	4	9	8	6	
Kilifi	11	10	9	12	10	6	4	4	2	4	2	3	3	3	3	
Kirinyaga	22	4	6	4	4	2	2	1	1	2	0	0	0	1	0	
Kisii	18	19	16	21	16	10	8	10	7	13	13	4	6	4	7	
Kisumu	17	16	18	16	14	13	10	30	11	10	11	3	9	6	7	
Kitui	13	11	10	13	10	4	4	2	3	4	7	3	1	2	2	
Kwale	4	4	4	4	3	1	2	0	2	3	2	1	1	0	0	
Laikipia	4	4	3	2	2	3	2	2	1	2	3	1	1	1	1	
Lamu	3	5	4	3	3	1	0	0	0	0	0	0	0	0	0	
machakos	8	7	5	6	6	3	2	3	4	4	5	3	1	3	3	
makueni	12	11	9	11	13	1	0	1	3	4	6	0	5	3	2	
Mandera	5	6	3	5	3	3	1	2	6	2	2	0	3	1	0	
marsabit	4	5	2	4	7	2	1	1	2	2	3	0	2	1	0	
Meru	25	22	14	25	15	5	5	5	9	3	8	3	2	1	6	
Migori	13	12	9	13	14	4	4	3	6	8	9	1	5	4	4	
Mombasa	15	15	13	14	12	5	3	12	13	6	9	4	3	5	8	
Muranga	10	7	9	7	8	2	1	4	4	5	4	1	2	2	2	
Nairobi	78	43	38	52	39	27	25	42	26	15	35	8	28	23	11	
Nakuru	17	17	15	14	15	6	5	5	6	3	9	5	3	3	3	
Nandi	5	6	3	4	5	0	0	3	1	1	4	0	1	0	3	
Narok	7	8	3	5	5	1	4	3	1	2	3	0	5	0	0	
Nyamira	8	8	6	7	4	2	0	0	0	1	5	0	0	0	0	
Nyandarua	13	8	5	5	6	5	2	3	1	2	2	1	2	2	2	
Nyeri	40	11	8	13	13	2	2	5	6	5	7	0	2	3	2	
Samburu	4	3	3	3	3	3	1	1	0	1	3	0	2	1	0	
Siaya	8	6	7	5	7	5	3	2	5	5	4	4	4	3	3	
Taita Taveta	3	3	2	2	3	0	0	1	1	0	1	2	0	0	0	
Tana River	3	3	2	2	2	2	1	2	0	1	1	0	3	0	0	
Tharaka Nithi	7	7	4	5	4	1	1	1	3	0	1	0	0	0	1	
Trans Nzoia	6	4	5	5	5	1	1	3	2	3	5	0	0	0	1	
Turkana	7	6	5	5	6	4	3	3	3	2	4	3	4	3	0	
Uasi Gishu	12	11	8	9	8	5	5	6	3	4	7	0	5	3	3	
Vihiga	8	6	4	5	4	3	1	1	2	2	2	1	2	2	1	
Wajir	11	6	3	3	5	1	0	1	3	1	2	0	1	0	0	
West Pokot	5	5	4	4	4	0	0	0	1	2	2	0	0	0	1	
Grand Total	607	467	368	446	408	195	147	236	187	167	256	70	142	108	147	



**Table 34: County specific availability of Maternity infrastructure in primary care facilities**

	No. of Primary Health facilities	Available infrastructure in primary care Maternity units												
		Antenatal ward with beds	First stage room/ward	Second stage room	Postnatal ward with beds	Nursery rooms with incubators	Maternity theatre with beds	Pantry Room	Ablution	Isolation Room with beds	Mothers' hostel with babies in nursery	Dressing room	Nursing station	Appropriately designed disability access
Baringo	162	21	12	21	15	0	8	14	1	0	2	2	9	0
Bomet	106	25	9	18	10	0	2	4	0	0	2	0	7	0
Bungoma	130	51	10	27	42	1	1	7	3	1	1	0	4	4
Busia	73	39	10	21	22	0	4	5	1	0	1	1	5	2
Elgeyo Marakwet	107	22	8	13	17	1	6	10	2	0	3	1	8	2
Embu	141	19	16	17	17	2	5	4	1	1	2	4	4	2
Garissa	120	26	12	15	11	0	4	11	1	1	3	2	8	2
Homa Bay	167	93	55	39	37	6	10	24	11	0	7	10	14	7
Isiolo	38	11	6	6	8	2	1	3	0	0	1	1	2	0
Kajiado	194	32	32	36	37	12	6	17	4	2	6	16	12	8
Kakamega	213	49	40	76	49	1	13	27	3	1	1	6	12	4
Kericho	163	51	22	24	26	6	6	8	2	0	2	4	10	1
Kiambu	294	79	52	61	96	4	27	30	14	6	13	19	30	17
Kilifi	188	29	32	53	34	1	12	23	3	0	6	4	14	5
Kirinyaga	120	19	34	29	17	1	12	13	1	0	4	5	16	6
Kisii	122	57	34	30	48	13	15	27	3	2	11	6	15	8
Kisumu	137	97	34	41	67	4	17	30	15	8	14	12	29	19
Kitui	300	49	44	55	54	2	8	17	1	2	2	7	8	3
Kwale	91	11	11	22	16	2	3	9	1	0	1	2	5	0
Laikipia	82	11	8	14	19	0	4	5	0	1	2	1	2	1
Lamu	39	3	4	9	3	1	1	1	0	0	2	1	2	0
Machakos	247	39	31	38	37	2	7	15	0	1	6	3	9	2
Makueni	172	56	44	68	49	2	9	6	1	0	8	0	10	3
Mandera	59	21	16	17	12	1	2	6	2	1	5	1	8	1
Marsabit	85	10	8	11	14	1	5	3	1	1	5	2	4	0
Meru	336	43	27	34	43	3	13	15	1	1	7	5	17	3
Migori	156	113	37	50	59	10	5	29	3	2	9	2	15	9
Mombasa	278	25	23	36	28	1	8	11	2	2	10	2	8	3
Muranga	174	34	26	31	26	1	7	7	0	1	2	1	9	3
Nairobi	790	138	86	111	143	22	48	45	22	15	38	38	49	24
Nakuru	300	71	50	65	72	3	18	22	1	1	11	9	19	7
Nandi	170	19	13	22	18	3	6	11	0	0	1	4	7	1
Narok	122	29	23	26	22	0	4	6	6	2	3	8	7	8
Nyamira	106	66	22	26	27	4	6	11	2	1	7	3	7	7
Nyandarua	103	29	22	32	22	3	10	15	3	1	2	5	12	5
Nyeri	205	37	16	22	34	4	12	24	3	1	1	3	9	6
Samburu	67	15	8	11	9	0	3	1	0	0	2	1	5	2
Siaya	147	114	46	53	72	4	17	43	9	3	16	10	23	5
Taita Taveta	78	14	12	26	22	0	8	13	1	2	2	4	6	8
Tana River	46	5	3	8	4	0	2	1	0	0	0	1	2	1
Tharaka Nithi	109	18	8	12	11	0	8	7	0	0	2	6	4	2
Trans Nzoia	131	27	25	30	33	3	8	19	4	5	4	10	9	8
Turkana	129	15	6	5	6	0	0	1	0	0	1	0	1	1
Uasi Gishu	134	62	37	38	35	6	20	16	4	5	14	10	14	10
Vihiga	79	20	10	29	19	0	7	2	1	0	2	4	8	1
Wajir	99	10	7	11	10	0	2	1	1	0	1	2	3	1
West Pokot	79	7	6	8	5	0	1	1	0	0	1	2	2	1
Grand Total	7388	1831	1097	1447	1477	132	401	620	134	70	246	240	483	213

**Table 35: County specific availability of maternity infrastructure in hospitals**

	No. of hospitals	Available infrastructure in hospital Maternity units												
		Antenatal ward with beds	First stage room/ward	Second stage room	Postnatal ward with beds	Nursery rooms with incubators	Maternity theatre with beds	Pantry Room	Ablution	Isolation Room with beds	Mothers' hostel with babies in nursery	Dressing room	Nursing station	Appropriately designed disability access
Baringo	7	7	4	5	4	2	9	6	5	2	3	3	4	4
Bomet	5	3	3	4	6	2	1	9	3	1	2	6	4	6
Bungoma	11	21	13	9	10	2	6	7	2	0	2	4	8	4
Busia	7	24	1	7	4	1	3	6	1	1	1	8	4	0
Elgeyo Marakwet	9	7	4	7	5	1	2	6	2	1	2	6	5	1
Embu	8	6	4	6	7	5	7	8	2	1	4	3	8	1
Garissa	9	17	9	13	28	2	4	8	3	1	1	8	6	2
Homa Bay	13	38	12	10	36	2	6	11	5	0	1	7	6	4
Isiolo	3	4	2	2	2	0	1	3	3	0	0	2	1	0
Kajiado	30	18	11	11	25	7	5	4	5	1	4	5	8	4
Kakamega	16	87	6	12	79	7	7	24	1	2	3	16	8	3
Kericho	11	11	8	10	25	1	5	11	3	4	2	10	8	1
Kiambu	52	38	20	19	55	6	13	14	13	5	6	15	12	8
Kilifi	11	29	3	8	31	2	3	13	5	1	2	7	5	2
Kirinyaga	22	2	5	4	3	0	1	1	0	1	2	3	4	1
Kisii	18	80	21	15	33	5	7	18	8	2	5	14	10	8
Kisumu	17	21	21	15	30	4	12	35	9	3	8	14	14	9
Kitui	13	9	13	10	18	2	6	7	4	1	1	6	7	2
Kwale	4	2	6	4	4	0	3	3	2	0	2	4	3	1
Laikipia	4	13	4	2	15	1	2	2	2	2	0	2	2	1
Lamu	3	2	1	3	2	0	2	2	0	0	0	3	3	1
machakos	8	20	4	8	33	3	8	12	7	2	5	12	9	3
makueni	12	8	6	7	11	0	6	3	1	1	2	3	6	3
Mandera	5	2	3	4	9	0	4	4	11	0	2	3	4	1
marsabit	4	3	2	2	2	0	1	4	1	0	0	2	1	0
Meru	25	32	18	22	60	3	7	44	3	3	6	15	8	4
Migori	13	23	8	11	26	18	6	7	8	0	4	9	9	6
Mombasa	15	78	30	30	87	5	6	42	7	1	3	14	11	7
Muranga	10	14	12	8	12	3	4	6	8	1	1	4	7	1
Nairobi	78	138	219	46	247	29	19	18	16	16	14	23	20	17
Nakuru	17	20	10	34	20	15	7	14	11	2	4	16	14	12
Nandi	5	9	2	7	13	5	1	5	1	0	0	3	3	2
Narok	7	4	4	5	4	2	4	2	0	1	2	5	3	2
Nyamira	8	13	9	6	23	0	4	6	2	0	0	5	2	0
Nyandarua	13	29	8	6	17	3	11	16	2	0	1	6	4	2
Nyeri	40	17	13	10	28	4	6	14	3	4	4	14	7	3
Samburu	4	2	2	2	5	0	3	2	5	0	2	2	2	0
Siaya	8	10	4	6	11	2	2	5	4	1	4	2	6	2
Taita Taveta	3	1	1	3	3	0	1	1	0	0	0	2	2	2
Tana River	3	2	1	1	0	2	0	1	0	0	0	1	1	0
Tharaka Nithi	7	14	7	12	17	1	2	11	3	1	0	8	6	5
Trans Nzoia	6	15	0	5	10	0	3	4	0	1	1	3	3	3
Turkana	7	2	2	4	8	1	2	2	1	1	2	1	3	2
Uasi Gishu	12	43	25	26	42	4	5	8	2	34	3	9	5	2
Vihiga	8	22	11	6	27	1	1	3	0	0	1	3	4	1
Wajir	11	6	2	7	3	1	1	1	1	1	2	2	2	0
West Pokot	5	12	4	4	12	0	2	2	2	1	2	2	2	1
Grand Total	607	978	578	458	1152	154	221	435	177	100	116	315	274	144

**Table 36: County specific availability of inpatient infrastructure in hospitals**

	No of hospitals	Available inpatient infrastructure in hospitals										
		beds Surgical male inpatients ward	Bed Medical Male inpatient ward	beds Surgical Female inpatients ward	Bed Medical Female inpatient ward	Bed Peadtric Ward	Operating theatre	in-patient Pharmacy	Intensive care unit with beds	Dressing room	Nursing station	Appropriately designed disability access
Baringo	7	44	58	37	36	53	4	2	0	3	8	9
Bomet	5	50	37	32	27	62	8	2	1	2	10	9
Bungoma	11	100	105	86	79	73	7	1	4	6	12	11
Busia	7	73	58	61	51	88	7	1	1	3	9	0
Elgeyo Marakwet	9	19	16	16	12	10	6	0	2	3	12	2
Embu	8	121	202	59	51	141	6	3	1	5	24	2
Garissa	9	56	56	43	32	85	21	2	1	8	9	2
Homa Bay	13	67	97	49	56	102	5	4	0	3	19	2
Isiolo	3	16	21	15	15	16	2	0	0	4	7	0
Kajiado	30	37	28	30	28	33	8	4	0	7	5	4
Kakamega	16	76	88	42	43	111	6	3	0	0	12	3
Kericho	11	88	89	32	75	82	9	6	1	5	24	0
Kiambu	52	87	90	50	45	90	14	12	3	6	16	8
Kilifi	11	83	84	2	2	52	6	4	0	7	6	2
Kirinyaga	22	2	3	2	3	2	2	1	0	2	2	1
Kisii	18	130	156	116	84	167	13	6	2	10	16	10
Kisumu	17	59	58	42	43	51	14	8	5	16	31	17
Kitui	13	31	35	10	11	36	5	1	1	0	6	2
Kwale	4	39	43	9	8	29	3	0	0	1	2	0
Laikipia	4	23	41	18	15	39	3	1	0	1	2	2
Lamu	3	2	2	0	0	2	3	0	0	0	3	1
machakos	8	50	59	38	36	58	7	3	6	15	21	4
makueni	12	31	33	15	15	10	4	0	0	3	7	4
Mandera	5	14	13	2	2	2	3	2	0	5	7	0
marsabit	4	39	41	2	2	2	2	2	0	4	4	0
Meru	25	86	119	49	53	111	9	3	0	8	4	3
Migori	13	62	62	26	29	40	5	2	1	8	9	8
Mombasa	15	149	130	103	105	221	18	7	27	5	24	7
Muranga	10	5	6	4	5	7	7	4	0	5	6	2
Nairobi	78	604	176	131	398	120	51	14	31	20	38	8
Nakuru	17	117	135	48	47	123	11	7	8	17	31	14
Nandi	5	40	40	36	36	24	4	2	0	0	11	2
Narok	7	31	38	13	9	37	5	1	1	1	7	2
Nyamira	8	21	33	20	18	12	1	2	0	1	1	1
Nyandarua	13	20	21	23	24	27	8	2	0	7	8	6
Nyeri	40	152	148	89	92	96	12	3	5	7	24	5
Samburu	4	26	26	26	26	40	3	1	1	6	6	0
Siaya	8	29	13	12	18	17	4	2	0	2	5	2
Taita Taveta	3	7	8	1	1	2	1	1	0	0	2	1
Tana River	3	1	2	1	1	2	2	0	0	0	3	0
Tharaka Nithi	7	70	67	60	41	51	4	1	0	5	11	1
Trans Nzoia	6	31	30	33	32	53	3	0	0	1	3	2
Turkana	7	17	19	2	2	11	4	2	0	2	2	1
Uasi Gishu	12	48	67	22	27	67	10	3	4	2	3	1
Vihiga	8	25	36	36	28	39	4	2	1	2	7	1
Wajir	11	76	53	25	26	12	4	1	0	2	5	1
West Pokot	5	22	41	16	0	42	2	0	1	1	5	0
Grand Total	607	2976	2764	1584	1789	2550	340	130	108	221	489	163

**Table 37: County specific availability of administration unit infrastructure for primary care facilities**

	No of Primary Health facilities	Available infrastructure administration units for primary care facilities																	
		pharmacy	drug dispensing room	cash office	Drug and non-pharmaceutical Stores	administrati on offices	room for health records	community services room	board Room	HR Registry Room	Resource Centre Room	Call Rooms For Persons	Staff Canteen Room	ablution Room	Staff Quarters For officers	Fence And Gate	Protected Composite Pit	Water Storage For Roof Catchment	Primary care Minimum Acreage
Baringo	162	23	31	6	43	6	1	0	2	0	0	4	0	11	36	46	31	49	96.3
Bomet	106	16	45	12	41	4	2	1	0	1	0	1	0	1	62	52	56	72	60.05
Bungoma	130	27	33	6	43	10	4	3	2	5	2	3	13	15	62	63	43	55	98.8323
Busia	73	10	12	7	17	7	1	1	2	0	0	1	1	17	26	52	31	51	53.75
Elgeyo Marakwet	107	17	23	10	24	7	5	0	2	0	0	0	1	1	37	14	33	36	117.9
Embu	141	20	35	15	38	9	4	3	2	0	0	0	1	3	41	57	31	75	57.95
Garissa	120	22	21	14	23	14	9	2	3	4	3	1	0	12	19	10	16	23	52.25
Homa Bay	167	55	49	32	56	38	29	16	10	7	10	7	7	21	80	92	58	121	89.34
Isiolo	38	11	9	3	8	3	2	0	0	0	0	2	0	3	8	8	10	10	23.75
Kajiado	194	39	44	26	35	25	19	8	1	1	3	5	2	17	44	59	36	59	111.75
Kakamega	213	30	35	12	35	25	8	9	5	2	3	1	2	8	55	66	51	83	69.94
Kericho	163	25	38	5	42	8	14	3	4	0	0	4	4	4	63	22	43	49	45.074
Kiambu	294	59	58	55	60	58	38	7	23	14	7	10	10	33	79	82	72	71	47.45
Kilifi	188	42	49	16	45	17	13	5	4	1	2	1	5	21	40	53	39	61	79.66
Kirinyaga	120	31	35	24	34	14	12	3	7	1	0	0	3	10	35	33	30	48	86.075
Kisii	122	43	41	20	36	18	20	7	4	3	4	2	5	21	56	41	49	174	119.3
Kisumu	137	58	57	45	63	61	42	18	14	12	15	19	21	48	75	75	66	142	172
Kitui	300	54	83	25	89	14	10	2	6	2	0	5	1	7	71	26	103	147	65.5
Kwale	91	23	32	9	30	6	4	2	2	1	0	6	0	5	19	59	19	62	43.5
Laikipia	82	19	22	13	26	5	8	1	4	3	1	2	3	8	31	22	35	49	2117.6
Lamu	39	10	11	6	12	5	3	1	2	1	1	1	0	1	11	1	7	12	19.25
machakos	247	31	52	22	50	18	17	3	7	5	3	7	3	10	58	22	66	80	56.2
makueni	172	28	55	19	51	14	8	5	7	1	1	1	3	22	50	46	55	86	118.15
Mandera	59	8	11	7	13	4	3	0	2	0	0	2	0	3	6	9	9	9	41
marsabit	85	9	13	7	15	7	3	3	2	1	0	3	2	1	15	8	10	28	8
Meru	336	32	56	31	48	29	13	4	7	5	2	2	4	11	53	44	57	48	186.35
Migori	156	49	56	27	60	34	25	14	7	3	3	5	9	34	60	62	58	100	10.84
Mombasa	278	23	32	26	25	17	11	5	5	2	4	3	4	25	23	5	16	17	13
Muranga	174	18	47	18	32	8	9	1	3	0	1	0	1	3	63	54	60	87	541.05
Nairobi	790	158	143	128	144	151	118	58	63	43	38	41	19	57	95	33	55	93	56.68
Nakuru	300	40	60	38	65	32	25	6	12	7	4	11	6	8	88	58	60	109	176.2
Nandi	170	32	44	16	36	10	4	3	4	2	1	6	11	4	57	66	41	64	110.1
Narok	122	29	30	18	36	18	14	6	7	7	5	2	4	16	42	85	47	84	156.1
Nyamira	106	29	37	17	31	18	16	8	3	3	1	7	4	18	41	36	30.5	56.5	54.025
Nyandarua	103	29	26	13	28	10	6	8	9	4	15	42	2	10	32	42	25	39	97.75
Nyeri	205	24	36	25	39	11	8	3	15	2	1	8	1	11	44	69	35	62	93.05
Samburu	67	5	12	5	17	7	4	2	1	1	1	0	2	3	22	28	22	54	28
Siaya	147	44	59	36	62	55	29	13	18	14	10	11	6	32	59	74	75	108	59.6
Taita Taveta	78	32	32	7	29	6	4	2	4	0	0	0	3	17	16	34	17	33	45.4
Tana River	46	20	22	9	16	0	0	1	0	0	0	1	0	0	10	6	6	6	41.5
Tharaka Nithi	109	14	17	5	17	2	0	1	0	0	0	0	0	3	13	7	17	18	23.015
Trans Nzoia	131	21	34	17	29	13	14	10	5	3	2	5	4	6	34	45	35	36	65.8
Turkana	129	36	34	8	15	12	4	2	4	0	1	0	0	1	10	21	11	14	10
Uasi Gishu	134	22	26	20	29	12	12	7	5	3	2	2	2	5	28	28	26	34	36.5
Vihiga	79	10	13	2	15	5	4	1	1	0	1	2	2	2	17	10	13	25	12.94
Wajir	99	14	16	5	13	2	1	0	0	0	1	0	0	2	12	26	12	20	8
West Pokot	79	6	12	1	16	3	1	1	0	0	0	0	0	0	18	28	11	33	131.95
Grand Total	7388	1397	1738	888	1731	852	601	259	290	164	148	236	171	571	1916	1879	1728.5	2792.5	5808.421

**Table 38: County specific availability of administration unit infrastructure for hospitals**

	No of Hospitals	Available administration unit infrastructure for hospitals																	
		pharmacy	drug dispensing room	cash office	Drug and non-pharmaceutical Stores	administration offices	Room for health records	community services room	board Room	HR Registry Room	Resource Centre Room	Call Rooms For Persons	Staff Canteen Room	ablution Room	Staff Quarters For officers	Fence And Gate	Protected Composite Pit	Water Storage For Roof Catchment	Hospital Minimum Acreage
Baringo	7	4	4	5	5	12	5	1	3	3	1	13	1	12	5	7	7	2	32.5
Bomet	5	4	3	3	5	23	7	0	4	3	2	1	2	7	69	8	40	6	24
Bungoma	11	2	4	6	6	25	8	2	4	7	2	1	4	12	52	18	10	10	65.1
Busia	7	3	0	4	4	16	5	2	1	2	1	9	1	3	60	7	6	5	95.7
Elgeyo Marakwet	9	8	7	8	4	12	4	1	3	4	1	3	3	8	55	12	8	10	100
Embu	8	4	5	7	5	11	6	2	5	6	1	1	1	4	91	12	6	7	43
Garissa	9	1	3	5	3	12	5	2	2	3	2	2	5	4	15	6	8	3	39.7
Homa Bay	13	10	11	7	13	24	9	7	3	2	1	4	5	7	55	14	29	7	61.5
Isiolo	3	3	4	2	3	3	4	0	1	2	0	1	2	10	60	0	2	1	23
Kajiado	30	9	11	12	9	17	10	2	5	5	5	1	2	1	28	8	10	9	9
Kakamega	16	7	5	10	12	49	11	5	5	5	2	2	16	12	75	15	22	13	60.1
Kericho	11	9	8	16	12	25	13	2	7	6	5	12	3	10	42	11	28	8	48
Kiambu	52	9	14	13	15	42	23	8	9	7	7	4	9	12	147	19	13	15	19.9
Kilifi	11	6	7	7	8	16	9	1	6	5	1	4	1	14	3	14	4	4	52.3
Kirinyaga	22	3	4	4	4	6	4	1	3	1	1	1	3	1	11	5	5	5	9
Kisii	18	17	14	12	13	24	15	4	12	11	6	9	4	43	66	23	59	15	46.9
Kisumu	17	16	12	11	13	43	15	9	12	11	6	4	6	17	32	20	24	16	24
Kitui	13	9	10	8	14	17	8	0	3	2	0	2	3	5	64	15	25	11	52
Kwale	4	2	2	3	2	18	2	1	2	3	1	1	0	4	32	3	8	1	21.5
Laikipia	4	2	2	1	3	3	1	2	1	3	1	1	1	2	0	2	10	2	79
Lamu	3	2	2	1	2	1	1	0	0	0	0	0	0	0	16	2	2	1	12
machakos	8	3	3	4	4	22	8	2	6	5	1	6	4	5	29	7	10	5	45
makueni	12	9	7	7	11	8	5	0	6	2	1	4	2	0	25	11	18	8	74
Mandera	5	3	2	4	4	17	4	2	3	1	1	1	0	2	9	4	5	3	24
marsabit	4	2	2	2	4	8	2	1	0	2	1	0	1	4	7	7	13	4	10
Meru	25	10	11	16	17	28	12	3	6	6	4	17	4	6	133	19	25	23	81.5
Migori	13	8	7	8	10	18	12	4	1	5	4	5	4	13	80	17	25	14	31.9
Mombasa	15	14	14	11	15	27	22	9	8	8	7	17	7	19	18	15	5	11	3.9
Muranga	10	5	6	5	12	8	5	2	3	3	0	0	0	3	6	10	19	7	40
Nairobi	78	35	29	30	25	105	33	10	19	18	12	18	13	47	91	34	37	17	52.3
Nakuru	17	10	10	13	16	27	23	4	6	8	3	6	4	7	207	16	15	14	188
Nandi	5	2	3	4	4	7	4	0	3	2	0	0	1	2	54	6	9	5	38.6
Narok	7	2	2	2	2	13	2	0	1	1	1	0	1	1	5	6	6	10	17
Nyamira	8	4	5	6	7	9	2	1	1	1	2	1	2	4	7	6	13	7	7
Nyandarua	13	3	2	5	6	11	2	1	2	3	2	0	0	5	192	2	3	3	197
Nyeri	40	8	6	9	9	19	12	5	4	5	5	5	3	16	122	10	17	6	73.3
Samburu	4	0	0	2	1	9	1	1	1	2	1	1	0	2	39	3	5	2	3
Siaya	8	4	3	5	6	14	7	1	1	2	2	4	4	14	3	11	7	7	21
Taita Taveta	3	1	1	3	2	7	5	0	1	2	0	1	1	6	8	3	2	1	13.3
Tana River	3	2	2	0	0	1	2	0	1	2	0	0	0	2	8	1	4	2	1
Tharaka Nithi	7	2	1	3	4	7	1	0	3	3	1	2	3	3	49	6	6	7	69
Trans Nzoia	6	3	2	3	7	13	5	2	2	1	0	0	0	4	12	5	5	3	22
Turkana	7	4	4	2	4	2	3	0	1	1	1	2	1	1	1	4	1	2	5
Uasi Gishu	12	7	7	9	7	11	8	5	5	4	3	2	5	6	4	7	5	5	55
Vihiga	8	3	2	3	11	7	3	2	3	1	2	4	13	14	56	19	15	7	31.5
Wajir	11	4	6	3	5	9	5	0	1	1	2	0	1	1	38	7	32	5	67.4
West Pokot	5	2	2	2	2	12	3	0	3	2	1	0	1	0	54	5	16	6	62
Grand Total	607	280	271	306	350	818	356	107	182	182	103	172	147	375	2231	461	644	335	2151

**Table 39: County specific availability of Diagnostic/Investigative infrastructure**

	No of hospitals	Available Diagnostic/ investigative infrastructure for Hospitals															
		LABORATORY/DIAGNOSTIC UNIT WITH:			IMAGING UNIT								RADIOLOGY UNIT				
		Unit for laboratory services	Unit for forensic services	Appropriately designed disability access	x-ray room	US Scan room	CT Scan	Mammography	MRI Room	Dressing room	Appropriately designed disability access	Radiotherapy bunkers	Isotope therapy isolation rooms	Renal unit	Water purification plant	Dialysis room	Appropriately designed disability access
Baringo	7	11	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0
Bomet	5	10	0	7	3	3	1	0	0	2	2	0	0	0	0	0	0
Bungoma	11	15	2	4	4	3	0	0	0	3	3	0	0	1	1	1	1
Busia	7	15	0	0	2	1	0	0	0	3	1	0	0	0	0	0	0
Elgeyo Marakwet	9	8	0	3	3	2	1	0	0	1	2	0	0	0	0	0	0
Embu	8	29	0	0	5	3	0	1	1	7	0	0	0	0	0	0	0
Garissa	9	8	3	2	2	2	1	1	1	1	2	1	1	1	0	1	1
Homa Bay	13	10	3	5	1	0	3	1	4	4	0	0	0	0	0	0	1
Isiolo	3	1	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0
Kajiado	30	13	1	3	2	4	0	0	0	5	5	0	0	1	1	1	0
Kakamega	16	13	3	3	3	9	1	0	0	16	3	1	1	0	0	0	1
Kericho	11	15	0	7	6	6	1	0	0	3	1	0	0	0	0	0	0
Kiambu	52	24	4	5	7	10	2	1	1	7	8	0	0	1	1	1	1
Kilifi	11	10	0	3	2	7	0	0	0	2	3	0	0	0	0	0	0
Kirinyaga	22	8	0	1	3	1	0	1	1	2	1	0	0	0	0	0	0
Kisii	18	15	0	6	5	5	1	2	0	5	6	0	0	0	0	0	0
Kisumu	17	23	1	11	7	11	3	2	1	16	8	3	3	2	2	2	4
Kitui	13	12	1	3	4	5	2	0	0	2	3	0	0	0	0	0	0
Kwale	4	4	0	0	2	2	0	0	0	3	0	0	0	0	0	0	0
Laikipia	4	4	1	1	1	1	1	0	1	2	1	0	0	0	0	0	0
Lamu	3	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0
machakos	8	7	2	4	3	6	1	1	0	11	7	1	1	0	0	0	1
makueni	12	15	1	3	2	2	0	0	0	0	1	0	0	0	0	0	0
Mandera	5	6	0	0	1	2	1	0	0	3	0	0	0	0	0	0	0
marasabit	4	4	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0
Meru	25	22	0	5	6	7	1	1	0	3	3	0	0	0	0	0	1
Migori	13	14	3	2	3	4	0	1	0	0	3	2	2	1	1	1	0
Mombasa	15	19	2	6	3	14	5	3	2	34	9	0	0	5	5	6	1
Muranga	10	6	2	3	3	4	2	1	0	0	0	1	1	1	1	1	1
Nairobi	78	51	6	7	18	25	9	5	4	30	12	4	3	7	6	5	2
Nakuru	17	20	4	4	9	8	2	1	0	2	2	0	0	1	1	3	1
Nandi	5	8	0	2	2	1	0	0	0	1	2	0	0	0	0	0	1
Narok	7	8	0	1	2	2	0	0	0	1	2	0	0	0	0	0	1
Nyamira	8	10	0	2	1	1	0	0	0	2	1	1	1	1	1	1	1
Nyandarua	13	11	1	2	3	4	2	2	0	2	2	0	0	0	0	1	1
Nyeri	40	17	4	7	7	10	2	1	0	4	6	1	1	1	1	1	0
Samburu	4	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
Siaya	8	5	2	2	4	2	2	0	0	4	2	1	1	0	0	0	1
Taita Taveta	3	2	0	1	2	2	0	0	0	1	2	0	0	0	0	0	0
Tana River	3	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
Tharaka Nithi	7	6	0	1	2	2	1	0	0	0	1	1	1	0	0	0	1
Trans Nzoia	6	5	0	3	2	1	0	0	0	0	1	0	0	0	0	0	0
Turkana	7	5	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0
Uasi Gishu	12	11	2	4	1	3	2	1	1	3	1	0	0	1	1	1	0
Vihiga	8	6	0	1	1	1	0	0	1	2	1	0	0	0	0	0	1
Wajir	11	8	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0
West Pokot	5	2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0
Grand Total	607	519	49	127	151	188	49	26	18	192	108	17	16	24	22	26	23

**Table 40: County specific availability of Medical support infrastructure (Intensive Care, physical therapy, mortuary, and maintenance) in hospitals**

	No of hospitals	Available medical support infrastructure for Intensive care, physical therapy, mortuary and maintenance in hospital									
		INTENSIVE CARE			PHYSICAL THERAPY UNIT WITH:			MORTUARY	MAINTENANCE WORKSHOP UNIT WITH:		
		Intensive Care Unit	High Dependency Unit	Appropriately designed disability access	Physiotherapy Unit	Orthopedic Unit	Occupational Unit		Rooms for maintenance equipment and spares	Room for the workshop	Appropriately designed disability access
Baringo	7	0	0	0	3	2	2	2	4	2	0
Bomet	5	1	1	1	8	1	3	3	5	10	11
Bungoma	11	2	0	1	6	3	4	4	5	3	3
Busia	7	0	0	0	4	4	4	2	10	1	0
Elgeyo Marakwet	9	1	0	0	3	2	3	3	5	15	1
Embu	8	0	0	0	5	1	5	5	6	4	1
Garissa	9	1	1	1	6	5	2	2	2	2	2
Homa Bay	13	0	0	0	3	1	1	1	5	2	1
Isiolo	3	0	0	0	2	1	1	1	2	2	0
Kajiado	30	0	0	0	8	3	5	2	5	2	0
Kakamega	16	1	0	1	5	1	2	3	8	6	3
Kericho	11	0	1	0	5	3	2	7	8	6	1
Kiambu	52	0	1	0	13	5	9	6	13	10	6
Kilifi	11	0	1	1	5	4	3	2	8	7	2
Kirinyaga	22	0	0	0	3	1	4	3	3	3	0
Kisii	18	3	2	2	5	3	3	5	10	8	7
Kisumu	17	3	2	3	9	3	4	7	7	16	7
Kitui	13	1	1	0	2	1	2	5	5	2	0
Kwale	4	0	0	0	2	2	2	2	5	1	0
Laikipia	4	0	0	0	1	2	1	1	3	2	2
Lamu	3	0	0	0	1	0	1	2	0	0	0
machakos	8	1	1	1	7	4	5	3	7	4	3
makueni	12	0	0	0	5	2	3	2	7	2	1
Mandera	5	0	0	0	1	0	1	1	1	2	0
marsabit	4	0	0	0	2	0	1	3	3	3	0
Meru	25	0	0	0	8	4	3	6	9	6	2
Migori	13	2	1	0	4	3	6	3	2	4	2
Mombasa	15	14	3	4	9	3	3	3	14	12	6
Muranga	10	1	0	0	5	3	2	4	4	3	1
Nairobi	78	9	8	2	15	12	14	11	21	20	8
Nakuru	17	4	4	2	15	19	10	9	8	8	2
Nandi	5	0	0	0	2	2	3	2	2	3	1
Narok	7	0	0	0	2	1	1	2	2	1	2
Nyamira	8	0	0	0	2	1	2	1	1	2	1
Nyandarua	13	0	0	0	3	4	3	3	3	4	2
Nyeri	40	3	2	2	10	4	5	8	10	10	4
Samburu	4	1	0	0	2	0	1	3	0	0	0
Siaya	8	0	0	0	3	1	2	4	2	2	1
Taita Taveta	3	0	0	0	2	2	2	2	2	2	1
Tana River	3	0	0	0	1	0	0	1	1	1	0
Tharaka Nithi	7	0	0	0	3	1	2	2	5	2	2
Trans Nzoia	6	0	0	0	2	1	2	2	1	1	1
Turkana	7	0	0	0	2	1	2	2	1	1	0
Uasi Gishu	12	2	1	1	7	4	4	1	5	4	2
Vihiga	8	0	0	0	2	2	9	1	2	2	2
Wajir	11	0	0	0	1	0	1	0	2	0	0
West Pokot	5	0	0	0	1	1	1	2	1	1	0
Grand Total	607	50	30	22	215	123	151	149	233	204	91

**Table 41: County specific availability of support infrastructure in hospitals**

	No of hospital	Available hospitals support infrastructure in hospitals										
		Stance pit latrine	Source of running water	Water reservoir	Protected placenta pit	Power Supply			Protected Diesel Incinerator	Supply services unit with:		
						Generator	Main Power	Solar Energy		Kitchen	Laundry	Store
Baringo	7	12	3	6	3	5	7	0	1	6	5	6
Bomet	5	19	29	10	6	6	6	0	2	6	4	16
Bungoma	11	29	68	19	13	9	10	4	3	8	6	7
Busia	7	17	7	11	6	6	5	1	4	7	3	7
Elgeyo Marakwet	9	23	8	20	9	10	8	4	3	7	5	8
Embu	8	24	14	14	8	6	9	2	5	8	6	12
Garissa	9	33	11	29	8	8	5	8	3	10	5	12
Homa Bay	13	44	19	53	13	8	11	2	3	11	6	14
Isiolo	3	3	2	2	1	1	1	0	1	2	1	1
Kajiado	30	19	30	22	9	12	16	0	4	11	8	8
Kakamega	16	32	18	17	13	11	13	3	7	12	7	11
Kericho	11	21	13	45	12	12	13	4	5	12	9	17
Kiambu	52	36	56	54	17	28	36	4	11	26	21	32
Kilifi	11	22	19	30	9	8	10	3	2	9	7	13
Kirinyaga	22	11	10	9	5	7	11	1	2	4	4	6
Kisii	18	48	20	50	17	14	16	4	7	16	9	16
Kisumu	17	33	47	29	14	15	14	16	8	15	13	22
Kitui	13	26	7	19	10	9	8	3	5	10	7	12
Kwale	4	5	23	14	2	3	3	0	0	3	2	3
Laikipia	4	4	7	15	2	4	3	11	2	4	2	3
Lamu	3	2	1	2	1	2	3	1	1	2	2	2
machakos	8	17	9	11	7	8	7	1	3	7	5	11
makueni	12	17	11	15	12	9	12	1	4	10	7	11
Mandera	5	11	20	16	15	5	4	51	1	3	2	5
marsabit	4	8	16	20	4	5	3	2	0	4	4	5
Meru	25	42	29	55	17	18	22	4	7	19	10	19
Migori	13	49	24	35	12	10	12	3	2	9	6	8
Mombasa	15	3	16	24	8	17	14	4	7	11	9	18
Muranga	10	51	12	28	9	7	11	4	2	7	7	13
Nairobi	78	12	56	89	18	44	49	12	9	31	24	36
Nakuru	17	9	12	26	11	14	12	2	4	18	16	20
Nandi	5	9	23	6	5	3	5	0	0	5	4	6
Narok	7	10	4	2	4	4	4	1	4	4	4	6
Nyamira	8	25	16	20	8	6	6	3	2	7	4	7
Nyandarua	13	10	7	5	4	7	6	4	1	5	4	5
Nyeri	40	23	22	26	8	13	24	1	7	11	8	10
Samburu	4	5	2	2	2	4	3	1	2	3	2	3
Siaya	8	26	7	9	8	9	6	3	6	8	8	11
Taita Taveta	3	1	6	6	3	2	3	0	1	3	2	2
Tana River	3	2	1	1	1	2	2	2	1	2	2	2
Tharaka Nithi	7	7	7	15	5	6	6	4	1	6	6	6
Trans Nzoia	6	15	6	11	5	2	5	0	2	5	5	3
Turkana	7	6	4	4	7	32	1	4	2	4	3	3
Uasi Gishu	12	11	11	13	9	8	10	3	9	11	10	10
Vihiga	8	13	6	6	5	5	7	1	2	6	5	6
Wajir	11	26	21	48	7	5	4	27	11	7	3	11
West Pokot	5	11	6	16	4	6	4	2	2	5	3	8
Grand Total	607	882	766	979	376	435	450	211	168	400	295	473



### 4.3 Communication equipment availability

Assessment of the availability of different forms of communication equipment was carried out, across the facilities. The presence of these different forms of communication equipment is shown, for primary care facilities and for hospitals in the subsequent 2 tables.

**Table 42: County specific availability of communication equipment in primary care facilities**

	No of primary health facilities	Available communication equipment in primary care facilities														
		Desktops	Laptops	Handheld devices (PDA,)	Phone (Mobile institutional)	Phone (Fixed)	Camera	Projector	Photocopier	OCR Scanner for digitalization of documents	2-Way Radio	Television	Printer	Scanner	Duplicator Machine	Internet services
Baringo	162	22	5	2	28	7	4	0	7	2	0	15	10	2	0	11
Bomet	106	23	1	0	3	0	1	1	2	0	0	4	8	3	1	4
Bungoma	130	40	11	2	23	6	2	1	4	2	0	30	21	6	0	7
Busia	73	23	11	0	24	5	13	1	8	0	0	18	16	2	0	4
Elgeyo Marakwet	107	11	3	0	7	0	0	0	5	0	0	2	7	3	0	4
Embu	141	67	7	1	39	22	3	3	14	1	5	37	39	6	4	12
Garissa	120	42	8	2	32	12	5	1	6	4	13	20	20	6	1	19
Homa Bay	167	86	50	5	50	9	11	5	25	4	9	41	34	9	2	21
Isiolo	38	9	2	0	7	3	1	0	0	0	3	7	1	0	0	4
Kajiado	194	171	42	8	81	38	6	5	34	8	8	67	76	25	3	63
Kakamega	213	67	14	6	58	18	2	0	12	0	3	44	22	6	1	17
Kericho	163	50	7	3	28	15	6	6	15	4	4	32	32	5	3	9
Kiambu	294	598	75	33	175	308	21	16	56	14	35	141	111	34	8	71
Kilifi	188	105	53	6	86	51	15	3	30	16	21	52	43	24	1	24
Kirinyaga	120	36	8	1	55	14	1	0	3	1	2	28	16	5	1	6
Kisii	122	24	6	3	58	15	3	0	7	2	2	27	10	6	3	10
Kisumu	137	175	92	13	83	46	19	8	27	9	1	66	49	24	11	44
Kitui	300	47	13	8	50	14	3	2	21	4	3	26	22	9	4	14
Kwale	91	12	5	1	30	2	3	0	4	0	7	18	3	3	3	5
Laikipia	82	36	19	1	26	16	5	2	14	1	2	28	19	11	2	18
Lamu	39	13	2	0	25	6	5	1	1	1	4	5	9	4	0	4
machakos	247	77	25	4	98	24	2	1	15	7	7	47	49	16	6	26
makueni	172	42	10	5	36	5	8	2	14	3	6	24	17	7	3	14
Mandera	59	12	10	4	8	4	0	2	7	0	8	9	7	3	1	4
marsabit	85	22	11	0	19	12	3	0	13	3	11	11	15	12	3	11
Meru	336	139	50	13	130	47	16	5	30	6	8	82	51	25	7	34
Migori	156	64	35	7	62	21	8	3	15	3	5	22	23	7	4	17
Mombasa	278	259	55	13	134	77	75	8	30	6	5	99	99	30	5	61
Muranga	174	35	3	3	66	9	3	0	9	2	3	27	11	3	0	15
Nairobi	790	1527	429	67	642	718	123	56	188	49	83	537	484	184	32	409
Nakuru	300	180	35	11	92	68	14	4	45	14	16	91	64	23	11	39
Nandi	170	55	22	1	36	8	4	4	8	2	4	38	25	8	3	17
Narok	122	38	40	2	29	4	10	3	14	3	0	27	20	10	7	10
Nyamira	106	19	4	3	30	7	2	0	8	1	3	14	10	5	0	9
Nyandarua	103	36	6	3	53	13	0	0	21	3	8	33	31	7	1	17
Nyeri	205	124	38	3	86	26	7	4	22	4	7	40	53	11	2	36
Samburu	67	9	9	0	8	3	0	0	3	1	3	3	5	2	0	3
Siaya	147	104	33	9	125	24	11	5	20	6	3	43	25	10	6	37
Taita Taveta	78	32	7	2	48	9	0	0	12	0	16	30	19	9	3	9
Tana River	46	10	0	2	2	1	0	0	0	0	7	1	2	0	0	1
Tharaka Nithi	109	20	3	0	10	3	0	1	3	0	0	3	6	2	0	3
Trans Nzoia	131	53	27	4	62	14	6	3	11	3	2	31	21	9	3	13
Turkana	129	9	9	5	8	1	7	0	3	1	18	8	7	3	0	4
Uasi Gishu	134	75	27	3	36	41	4	5	14	2	3	36	32	10	5	16
Vihiga	79	29	7	0	24	20	2	1	7	2	1	24	14	5	2	11
Wajir	99	18	15	7	20	5	2	0	7	0	12	10	8	3	2	13
West Pokot	79	3	3	0	9	0	1	0	1	0	1	2	3	1	1	1
Grand Total	7388	4648	1347	266	2841	1771	437	162	815	194	362	2000	1669	598	155	1201

**Table 43: County specific availability of communication equipment in hospitals**

	No of Hospitals	Available communication equipment in hospitals														
		Desktops	Laptops	Handheld devices (PDA, )	Phone (Mobile institutional)	Phone (Fixed)	Camera	Project or	Photocopier	OCR Scanner for digitalization of documents	2-Way Radio	Television	Printer	Scanner	Duplicat or Machine	Internet services
Baringo	7	34	7	1	6	14	0	1	10	4	0	15	12	7	1	6
Bomet	5	150	11	10	53	18	22	5	8	0	0	11	26	4	2	5
Bungoma	11	194	29	0	12	37	4	6	7	2	0	54	37	4	1	4
Busia	7	81	15	2	9	73	2	3	5	2	0	11	12	2	1	5
Elgeyo Marakwet	9	40	6	0	9	28	1	2	6	1	0	15	13	1	0	9
Embu	8	116	9	0	8	10	17	3	11	2	0	59	37	7	6	10
Garissa	9	54	6	0	5	3	3	2	5	1	3	7	13	7	6	4
Homa Bay	13	80	11	1	13	18	0	2	11	1	0	12	17	6	2	17
Isiolo	3	6	0	0	0	0	0	0	0	0	1	1	1	0	0	0
Kajiado	30	83	17	7	23	29	31	3	12	7	1	34	25	8	3	13
Kakamega	16	126	14	0	13	5	3	3	8	1	0	27	27	4	1	12
Kericho	11	196	30	0	14	86	6	7	9	4	2	32	40	9	5	8
Kiambu	52	356	49	8	50	214	22	13	34	7	6	73	134	14	4	24
Kilifi	11	82	13	4	20	79	8	8	12	2	1	22	27	8	2	12
Kirinyaga	22	85	21	2	15	26	3	2	8	1	0	22	24	6	0	5
Kisii	18	162	24	2	24	43	2	1	10	2	0	85	37	9	4	17
Kisumu	17	209	35	1	26	92	48	12	13	7	8	38	49	13	4	14
Kitui	13	70	16	0	11	4	3	1	13	3	0	13	33	8	0	24
Kwale	4	23	4	0	4	25	0	2	4	1	1	7	8	2	0	2
Laikipia	4	63	5	0	9	3	2	3	3	2	0	9	12	2	1	4
Lamu	3	15	2	0	4	1	0	1	3	0	1	0	3	1	1	2
machakos	8	279	13	0	9	21	3	6	10	1	0	42	39	12	3	14
makueni	12	52	7	1	10	3	1	3	7	1	2	23	30	8	3	10
Mandera	5	12	0	0	0	1	0	0	4	0	1	2	4	3	2	1
marsabit	4	34	4	0	2	30	1	1	8	1	2	8	12	5	2	5
Meru	25	159	24	7	29	22	7	12	20	0	10	22	57	14	4	14
Migori	13	100	14	2	18	43	3	1	9	2	0	19	27	8	4	5
Mombasa	15	588	36	1	33	366	16	11	23	6	7	147	130	27	5	17
Muranga	10	43	9	0	11	25	2	2	9	2	0	11	22	5	4	6
Nairobi	78	1229	193	26	270	698	66	51	82	29	96	214	351	69	20	220
Nakuru	17	303	15	2	39	60	29	8	16	6	3	92	55	10	5	30
Nandi	5	53	4	1	4	5	0	1	2	0	0	10	11	1	1	2
Narok	7	32	5	1	4	3	3	2	3	4	2	16	8	4	0	4
Nyamira	8	36	4	0	5	0	0	0	4	3	0	3	8	5	3	5
Nyandarua	13	65	14	0	8	44	1	4	8	4	7	21	20	2	1	4
Nyeri	40	200	21	3	28	66	4	9	16	4	0	63	41	9	3	14
Samburu	4	8	3	0	3	1	1	0	2	0	3	2	7	2	0	1
Siaya	8	44	16	0	9	1	2	5	4	6	2	16	14	4	1	8
Taita Taveta	3	16	3	0	4	3	1	1	1	0	0	13	8	5	0	4
Tana River	3	16	2	5	2	4	0	0	2	0	6	2	5	0	1	1
Tharaka Nithi	7	61	6	4	15	21	3	2	8	1	2	18	11	3	0	33
Trans Nzoia	6	71	1	0	6	10	1	2	3	1	0	11	12	3	0	7
Turkana	7	0	0	0	1	0	0	0	1	0	4	4	2	0	0	1
Uasi Gishu	12	586	34	28	25	985	13	13	14	5	0	91	72	10	2	29
Vihiga	8	34	10	0	7	30	3	2	4	3	0	13	13	1	0	4
Wajir	11	38	3	1	1	4	1	0	6	1	3	3	14	2	1	5
West Pokot	5	11	7	0	4	19	0	0	2	0	1	6	4	0	2	7
Grand Total	607	6295	772	120	875	3273	338	216	460	130	175	1419	1564	334	111	648

## 4.4 Transport availability

The SARAM documented the different forms of transport available across the Country. Motor cycles are the most common form of transport, followed by utility vehicles. There is a wide disparity across Counties regarding availability of transport in general, and ambulances in particular as shown in the table below.

**Table 44: County specific availability of different forms of transport**

County	County population	No of facilities	Available numbers of functional transport equipment					Functional Ambulances per County	Functional ambulances per 100,000 popn	Support / utility vehicles per facility
			Ambulances	Support/ Utility vehicles	Bicycles	Motor cycles	Motor Boat			
Baringo	623348	169	9	11		51		6	0.96	0.06
Bomet	1008485	111	6	20		37		4	0.40	0.18
Bungoma	1527632	141	8	27	6	48		8	0.52	0.18
Busia	824392	80	2	5	6	4		2	0.24	0.06
Elgeyo Marakwet	415959	116	14	16		50		12	2.88	0.13
Embu	554583	149	30	70	1	41		29	5.23	0.47
Garissa	618868	129	32	17	11	59		8	1.29	0.13
Homa Bay	1058610	180	4	12		2		4	0.38	0.07
Isiolo	157269	41	2	6				2	1.27	0.14
Kajiado	788422	224	14	28	4	50		14	1.78	0.12
Kakamega	1714367	229	7	18	8	32		7	0.41	0.08
Kericho	850983	174	18	23		9		18	2.12	0.13
Kiambu	1651014	346	27	56		31		25	1.51	0.16
Kilifi	1244420	199	20	32	20	77		14	1.13	0.14
Kirinyaga	569871	142	8	7	1	3		7	1.23	0.05
Kisii	1268538	140	4	8		8		4	0.32	0.06
Kisumu	1059733	154	1	10	1	7		1	0.09	0.06
Kitui	1136087	313	17	46	19	100		14	1.23	0.14
Kwale	728880	95	13	24	11	87		6	0.82	0.25
Laikipia	454887	86	11	22		40		11	2.42	0.24
Lamu	113845	42	3	8		35	3	3	2.64	0.19
machakos	1200556	255	12	40	61	83		12	1.00	0.13
makueni	961155	184	13	23	12	32		12	1.25	0.12
Mandera	424044	64	5	18	10	38		3	0.71	0.26
marsabit	319706	89	5	24	16	62		3	0.94	0.26
Meru	1197856	361	13	37	10	20		12	1.00	0.09
Migori	1012113	169	7	16	3	14		7	0.69	0.09
Mombasa	1005892	293	11	31	1	17		11	1.09	0.08
Muranga	956823	184	7	13		15		7	0.73	0.07
Nairobi	3608362	868	103	361		17		101	2.80	0.41
Nakuru	1812902	317	25	69	9	41		25	1.38	0.21
Nandi	849621	175	7	19	11	43		6	0.71	0.10
Narok	950057	129	7	23	1	18		6	0.63	0.17
Nyamira	656856	114	10	20		25		8	1.22	0.18
Nyandarua	332987	116	7	12	3	22		7	2.10	0.10
Nyeri	746694	245	12	34	1	17		12	1.61	0.13
Samburu	250478	71	6	22		88		6	2.40	0.29
Siaya	929402	155	1	9		28		1	0.11	0.06
Taita Taveta	256340	81	8		2	6		8	3.12	0.00
Tana River	269164	49	8	22	22	41		6	2.23	0.45
Tharaka Nithi	401442	116	4	10	7	33		3	0.75	0.09
Trans Nzoia	868593	137	8	18		18		6	0.69	0.13
Turkana	844386	136	10	19		38		8	0.95	0.13
Uasi Gishu	1018651	146	6	7	14	11		5	0.49	0.04
Vihiga	615897	87	13	31		6		13	2.11	0.36
Wajir	750933	110	5	6		19		5	0.67	0.05

West Pokot	582733	84	12	20	10	92		10	1.72	0.21
Grand Total	41193836	7995	575	1370	281	1615	3	502	1.22	0.16

## 4.5 Medical equipment availability

The SARAM also documented the availability of different equipments across the Country. The equipments were captured based on the service units within the facility that they were utilized. The availability of the specific service units by County are shown in the table below.

**Table 45: Availability of different service units by County**

County	Total number of facilities	Service Units														
		Maternity	MCH / FP	Laboratory	OPD	Minor theatre	Theatre	CSSD	Imaging	Pharmacy	Eye unit	ENT	Dental	Wards	Physiotherapy	Mortuary
Baringo	169	21	44	10	38	3	2	2	1	2	3	1	2	3	1	3
Bomet	111	0	34	10	27	3	3	1	1	2	2	1	3	2	2	3
Bungoma	141	20	42	20	34	12	5	4	1	5	4	1	3	5	4	2
Busia	80	17	25	9	18	11	3	1	1	3	1	1	1	3	2	1
Elgeyo-Marakwet	116	0	22	6	20	5	3	3	1	2	3	0	2	3	1	3
Embu	149	22	48	22	37	8	3	3	2	2	2	0	4	3	2	4
Garissa	129	20	29	13	21	4	2	2	0	2	2	0	1	3	0	1
Homa Bay	180	55	67	19	52	17	4	5	1	4	3	1	3	6	2	3
Isiolo	41	7	15	3	11	1	1	1	0	0	2	1	1	1	0	1
Kajiado	224	0	69	26	68	12	6	5	2	3	2	2	3	3	2	2
Kakamega	229	47	73	20	51	15	4	2	2	5	5	3	3	7	4	3
Kericho	174	0	55	15	40	8	6	4	4	4	5	2	3	5	3	3
Kiambu	346	74	134	52	98	24	10	10	7	7	6	5	10	11	7	5
Kilifi	199	52	63	26	57	12	5	3	3	3	3	2	4	5	3	3
Kirinyaga	142	22	44	21	38	7	3	3	1	2	1	0	1	2	1	2
Kisii	140	45	48	18	40	21	5	3	3	7	2	1	5	8	3	6
Kisumu	154	49	57	28	58	27	7	6	4	8	3	3	4	10	4	6
Kitui	313	57	79	24	71	14	3	4	2	4	4	1	3	3	1	3
Kwale	95	26	37	12	24	5	2	2	1	1	0	0	1	2	2	1
Laikipia	86	15	28	13	25	4	1	2	1	1	1	0	1	3	0	1
Lamu	42	9	16	5	12	4	2	0	1	1	1	0	1	1	1	1
Machakos	255	53	84	29	63	17	4	3	2	3	2	1	4	4	4	3
Makueni	184	46	68	23	47	5	2	3	1	2	1	1	2	3	2	3
Mandera	64	12	14	5	10	3	2	2	1	2	1	0	1	2	1	0
Marsabit	89	15	22	9	22	5	2	2	1	1	2	1	1	3	1	1
Meru	361	36	67	37	66	15	7	6	4	6	4	2	5	8	4	5
Migori	169	48	58	19	47	22	4	2	4	3	2	1	2	5	3	4
Mombasa	293	48	71	41	77	19	10	7	6	6	5	1	6	7	4	5
Muranga	184	28	77	30	49	9	5	5	3	2	1	1	2	4	2	4
Nairobi	868	92	173	96	209	53	18	16	14	18	11	8	19	15	13	7
Nakuru	317	64	118	47	98	19	11	10	6	9	3	2	6	10	6	9
Nandi	175	25	37	11	30	7	1	2	0	1	1	1	1	2	1	2
Narok	129	27	41	11	30	7	2	2	1	3	2	0	2	2	1	1
Nyamira	114	36	45	11	34	7	1	1	1	2	1	1	1	2	1	1
Nyandarua	116	32	49	15	34	7	3	3	1	2	1	1	2	3	1	2
Nyeri	245	26	73	30	56	14	7	7	5	5	7	5	7	7	4	7
Samburu	71	12	19	4	16	5	1	1	1	1	0	1	1	1	1	1
Siaya	155	50	62	19	49	16	3	1	2	3	2	0	2	4	1	4
Taita Taveta	81	21	32	10	24	3	2	1	1	1	1	0	1	1	1	1
Tana River	49	8	18	1	13	1	1	1	0	1	0	0	0	1	1	1
Tharaka Nithi	116	7	27	12	32	2	3	3	0	2	2	1	1	3	1	2
Trans-Nzoia	137	23	35	13	26	5	2	3	1	1	1	0	1	3	1	1
Turkana	136	14	22	6	23	3	2	2	0	2	2	0	0	3	1	3
Uasin Gishu	146	31	52	19	36	10	4	3	2	2	3	2	2	4	1	3
Vihiga	87	17	27	8	17	7	3	1	1	1	1	0	1	1	1	1
Wajir	110	15	15	7	14	3	2	2	0	0	1	0	0	2	1	0
West Pokot	84	8	21	4	14	3	1	2	0	1	0	0	0	2	1	1
<b>Grand Total</b>	<b>7995</b>	<b>1472</b>	<b>2356</b>	<b>885</b>	<b>1972</b>	<b>471</b>	<b>181</b>	<b>153</b>	<b>97</b>	<b>148</b>	<b>112</b>	<b>53</b>	<b>125</b>	<b>186</b>	<b>102</b>	<b>120</b>

Availability of specific equipment in these service units is shown in the proceeding tables.

**Table 46: County specific availability of Maternity unit equipment**

	No of facilities	No with maternity units	Total number of maternity unit equipment												
			Baby cot	Delivery bed	Fetus detect-or/monitor/Doppler	Infant Incubator	Patient monitor	Oxygen concentrator/ cylinder with a flow meter	Manual vacuum aspiration set.	Phototherapy unit	Infant weighing scale	Adult weighing scale	Autoclave	Wheel chair	Refrigerator
Baringo	169	21	21	42	12	6	4	10	15	4	46	46	31	8	24
Bomet	111	0	16	48	18	7	1	13	11	4	48	38	25	18	20
Bungoma	141	20	14	61	10	10	4	19	25	3	42	28	15	11	14
Busia	80	17	12	41	21	9	1	11	19	5	33	19	25	13	15
Elgeyo-Marakwet	116	0	13	26	15	5	2	11	16	1	44	30	22	11	13
Embu	149	22	17	40	10	10	3	15	18	7	41	41	37	17	27
Garissa	129	20	14	32	15	7	6	12	16	6	37	38	35	17	19
Homa Bay	180	55	50	120	51	23	24	31	37	9	113	99	69	39	48
Isiolo	41	7	6	15	5	2	0	5	6	1	12	17	9	9	10
Kajiado	224	0	36	83	46	21	10	39	52	9	76	91	72	40	62
Kakamega	229	47	44	111	34	23	6	31	48	9	92	68	67	41	34
Kericho	174	0	27	69	26	12	7	18	24	9	75	72	46	21	34
Kiambu	346	74	69	102	60	36	17	62	58	32	127	126	104	72	103
Kilifi	199	52	26	100	28	14	10	33	46	11	97	104	93	41	77
Kirinyaga	142	22	18	31	16	9	3	20	19	8	33	35	37	23	28
Kisii	140	45	38	91	41	22	11	33	29	5	92	86	59	39	43
Kisumu	154	49	40	85	41	26	17	44	43	6	95	89	57	50	42
Kitui	313	57	27	141	57	8	6	16	32	5	124	149	87	35	59
Kwale	95	26	15	61	15	6	1	10	21	2	55	50	59	15	22
Laikipia	86	15	11	28	15	6	4	11	12	5	34	30	22	9	15
Lamu	42	9	5	22	6	4	1	5	6	1	14	21	17	3	13
Machakos	255	53	38	111	39	13	3	24	36	7	120	116	76	38	68
Makueni	184	46	46	118	32	9	6	23	31	2	99	90	79	25	37
Mandera	64	12	11	23	11	5	1	7	14	4	23	27	17	8	9
Marsabit	89	15	14	28	10	5	3	13	11	2	34	31	23	12	14
Meru	361	36	30	60	22	18	7	33	26	13	77	68	45	30	40
Migori	169	48	41	113	48	15	22	21	42	6	102	99	51	31	29
Mombasa	293	48	28	68	29	19	16	36	40	18	82	92	71	54	76
Muranga	184	28	21	55	37	11	3	15	23	3	48	49	43	16	34
Nairobi	868	92	75	115	71	47	39	86	73	35	137	150	140	94	132
Nakuru	317	64	54	100	45	30	23	56	55	17	122	93	89	58	85
Nandi	175	25	20	48	19	8	3	15	20	4	46	56	32	23	26
Narok	129	27	19	44	24	14	10	16	19	9	51	60	40	19	25
Nyamira	114	36	22	84	43	13	11	16	26	3	83	78	54	17	20
Nyandarua	116	32	26	56	27	12	7	25	25	6	60	60	52	23	39
Nyeri	245	26	20	47	14	18	0	30	26	10	51	44	31	21	28
Samburu	71	12	10	21	10	3	1	6	6	2	30	37	13	7	13
Siaya	155	50	30	106	42	23	14	33	44	9	103	96	66	42	47
Taita Taveta	81	21	10	40	17	7	1	12	17	3	47	45	43	13	20
Tana River	49	8	1	24	3	3	3	2	4	0	26	21	8	4	4
Tharaka Nithi	116	7	7	14	9	7	3	8	8	1	11	8	9	5	3
Trans-Nzoia	137	23	17	38	20	13	4	21	19	7	43	41	27	20	23
Turkana	136	14	8	17	5	1	0	5	8	0	42	44	15	11	30
Uasin Gishu	146	31	33	55	24	12	13	28	21	9	57	44	49	27	33
Vihiga	87	17	16	42	16	7	1	11	16	1	40	25	22	9	14
Wajir	110	15	8	31	23	7	1	6	13	0	25	33	28	5	11
West Pokot	84	8	7	19	3	6	0	4	5	1	14	17	10	8	10
Grand Total	7995	1472	1131	2824	1185	592	333	1001	1181	314	2903	2801	2121	1152	1592

**Table 47: County specific availability of MCH / FP unit equipment**

	No of facilities	No with MCH/FP units	Total number of MCH / FP unit equipment										
			Cold boxes	Electric cookers	Infant weighing scale	Refrigerator, KEPI	Tape measure	Weighing scale adult	Wheel chair adult	IUD Insertion /removal set	Implant insertion set	Implant removal kit	Autoclave
Baringo	169	44	85	8	102	89	28	89	7	24	22	14	20
Bomet	111	34	82	13	79	67	23	65	9	9	6	8	15
Bungoma	141	42	61	18	68	75	34	70	15	37	40	33	16
Busia	80	25	32	8	51	55	18	37	4	18	26	18	7
Elgeyo-Marakwet	116	22	33	10	54	44	15	40	8	7	10	9	12
Embu	149	48	62	11	85	76	26	86	13	51	43	32	45
Garissa	129	29	40	7	49	64	37	63	8	10	10	11	22
Homa Bay	180	67	116	30	116	99	61	104	31	53	46	39	44
Isiolo	41	15	27	3	24	34	12	26	8	5	7	6	13
Kajiado	224	69	110	17	104	102	63	116	34	56	46	48	66
Kakamega	229	73	112	36	119	112	46	109	21	77	73	55	42
Kericho	174	55	100	24	111	92	40	107	17	23	27	24	36
Kiambu	346	134	167	27	189	182	139	201	57	142	125	122	122
Kilifi	199	63	79	18	105	105	55	114	27	46	44	41	63
Kirinyaga	142	44	48	4	68	58	62	71	15	55	33	29	40
Kisii	140	48	85	12	99	62	35	72	23	35	37	31	34
Kisumu	154	57	97	22	103	66	63	81	32	40	45	38	42
Kitui	313	79	119	13	143	144	75	165	22	47	51	43	49
Kwale	95	37	54	9	60	62	40	61	9	30	27	23	31
Laikipia	86	28	37	12	53	50	28	53	12	17	19	14	12
Lamu	42	16	18	3	22	26	20	30	7	9	11	11	14
Machakos	255	84	121	29	153	143	80	142	27	65	61	51	49
Makueni	184	68	95	13	121	115	59	127	18	54	50	41	57
Mandera	64	14	24	8	23	30	15	27	5	5	6	3	7
Marsabit	89	22	37	3	49	54	16	43	7	8	12	7	9
Meru	361	67	96	15	119	118	67	129	22	45	46	37	40
Migori	169	58	85	24	93	80	66	75	26	51	55	45	38
Mombasa	293	71	88	25	103	80	64	112	49	67	57	62	73
Muranga	184	77	103	18	106	110	70	121	22	88	66	64	78
Nairobi	868	173	197	59	233	211	193	258	109	175	130	151	185
Nakuru	317	118	167	29	186	198	101	178	48	109	107	88	86
Nandi	175	37	66	7	88	80	23	68	10	14	15	17	22
Narok	129	41	68	13	77	73	42	78	19	18	19	15	30
Nyamira	114	45	85	24	93	80	66	75	26	51	55	45	38
Nyandarua	116	49	69	17	77	69	39	74	14	58	39	43	43
Nyeri	245	73	88	17	102	96	64	111	25	96	65	64	74
Samburu	71	19	34	3	36	37	15	45	5	4	14	5	8
Siaya	155	62	88	35	105	85	72	93	27	44	43	41	46
Taita Taveta	81	32	49	8	57	57	25	55	11	22	24	21	24
Tana River	49	18	38	1	39	35	21	28	3	5	6	4	15
Tharaka Nithi	116	27	23	1	31	49	43	55	12	27	20	13	22
Trans-Nzoia	137	35	45	12	64	61	27	60	9	29	28	23	25
Turkana	136	22	35	1	44	51	29	47	7	5	4	5	9
Uasin Gishu	146	52	96	17	98	77	31	80	20	42	37	36	42
Vihiga	87	27	31	10	44	41	19	38	4	40	33	24	14
Wajir	110	15	19	5	25	58	6	29	2	3	5	4	9
West Pokot	84	21	33	5	48	44	19	48	6	5	4	4	13
<b>Grand Total</b>	<b>7995</b>	<b>2356</b>	<b>3434</b>	<b>694</b>	<b>4000</b>	<b>3778</b>	<b>2167</b>	<b>3949</b>	<b>898</b>	<b>1910</b>	<b>1735</b>	<b>1555</b>	<b>1796</b>

**Table 48: County specific availability of Theatre equipment**

	No of hospitals	No with theatres	Total number of theatre equipments available											
			Anaesthetic Machine	Defibrillator	Laryngoscope	Oxygen Regulator	Vital Signs Monitor	Autoclave	Electro surgical Unit	Operating Theatre Lamp, Ceiling Mounted.	Pulse oximeter	Refrigerator	Suction machine, electric	Theatre Bed
Baringo	7	2	3	1	3	3	1	2	0	3	2	3	3	3
Bomet	5	3	2	2	3	3	3	3	2	3	4	2	3	3
Bungoma	11	5	7	4	7	6	5	6	0	6	5	4	6	6
Busia	7	3	4	1	3	4	1	4	1	4	2	3	3	4
Elgeyo Marakwet	9	3	3	2	4	4	3	4	1	3	2	1	4	3
Embu	8	3	5	1	3	3	3	4	1	4	2	4	5	5
Garissa	9	2	4	3	4	3	4	3	4	3	3	3	3	3
Homa Bay	13	4	5	3	5	5	5	4	3	5	5	2	4	5
Isiolo	3	1	1	0	1	1	1	1	1	1	1	1	1	1
Kajiado	30	6	7	6	8	6	8	11	5	8	8	8	7	8
Kakamega	16	4	6	2	5	5	4	5	1	3	5	4	6	5
Kericho	11	6	6	4	6	6	6	6	2	6	6	5	6	6
Kiambu	52	10	12	4	10	11	10	8	6	10	9	8	14	12
Kilifi	11	5	6	3	5	5	3	5	4	5	4	5	6	6
Kirinyaga	22	3	4	1	4	2	4	3	1	4	2	3	4	4
Kisii	18	5	7	4	3	7	7	5	5	7	2	2	5	6
Kisumu	17	7	9	2	8	7	7	6	5	8	6	7	10	9
Kitui	13	3	5	1	4	5	3	4	1	6	2	1	4	6
Kwale	4	2	1	0	1	1	1	2	0	2	1	1	2	0
Laikipia	4	1	2	1	1	1	2	2	0	2	2	2	2	1
Lamu	3	2	3	1	0	1	2	2	0	2	1	3	2	3
machakos	8	4	5	1	5	5	4	4	3	4	5	3	5	5
makueni	12	2	4	0	1	3	3	3	1	4	0	2	4	5
Mandera	5	2	3	1	3	2	3	1	1	2	1	1	2	3
marsabit	4	2	2	1	2	3	2	3	2	2	2	1	3	3
Meru	25	7	9	5	8	8	7	7	3	7	7	7	10	9
Migori	13	4	4	3	5	5	5	5	3	5	5	1	5	5
Mombasa	15	10	11	8	10	11	10	11	7	10	8	11	10	10
Muranga	10	5	6	4	6	4	6	6	2	6	4	5	7	6
Nairobi	78	18	16	9	15	15	16	15	7	16	15	17	17	17
Nakuru	17	11	13	5	9	11	12	11	9	12	10	10	13	11
Nandi	5	1	2	1	2	2	1	2	0	2	1	1	2	3
Narok	7	2	1	1	1	1	1	1	1	1	1	1	1	1
Nyamira	8	1	1	1	0	0	1	1	0	1	0	0	1	1
Nyandarua	13	3	3	3	3	4	4	2	1	3	4	4	2	4
Nyeri	40	7	9	5	9	8	8	9	5	8	7	5	9	9
Samburu	4	1	1	0	1	1	1	1	0	1	1	1	2	1
Siaya	8	3	4	3	4	4	3	1	2	3	4	2	4	4
Taita Taveta	3	2	2	1	2	2	1	2	0	2	1	2	2	2
Tana River	3	1	1	1	1	2	1	2	0	2	2	0	2	2
Tharaka Nithi	7	3	4	1	4	2	3	4	1	3	3	2	4	4
Trans Nzoia	6	2	2	1	2	2	1	2	1	2	1	1	2	1
Turkana	7	2	2	0	1	2	2	2	1	2	1	2	3	2
Uasi Gishu	12	4	5	2	5	5	5	5	2	4	3	3	5	5
Vihiga	8	3	3	1	3	3	3	2	2	3	1	3	3	3
Wajir	11	2	4	1	4	3	3	4	0	3	2	2	4	4
West Pokot	5	1	1	0	2	2	2	1	0	2	1	1	2	0
Grand Total	607	181	220	105	196	199	191	197	97	205	164	160	224	219



**Table 49: County specific availability of CSSD and imaging units equipment**

	No of hospitals	No with CSSD units	No with imaging units	Total number of CSSD equipments			Total number of imaging unit equipments				
				CSSD			IMAGING UNIT				
				Autoclave, large	Instrument drying cabinet	Sterilizing drums (assorted)	X-ray unit	Ultra sound unit(general)	OPG Unit	Radiography unit	Radioactive isotopes
Baringo	7	2	1	3	1	2	2	2	1	0	0
Bomet	5	1	1	2	0	1	2	2	0	1	0
Bungoma	11	4	1	5	2	5	3	3	0	1	0
Busia	7	1	1	2	0	2	2	2	0	1	0
Elgeyo Marakwet	9	3	1	3	2	4	1	1	0	1	0
Embu	8	3	2	3	2	3	4	3	0	2	0
Garissa	9	2	0	3	3	3	2	2	1	1	1
Homa Bay	13	5	1	5	3	6	2	2	0	1	1
Isiolo	3	1	0	1	1	2	1	1	0	0	0
Kajiado	30	5	2	4	4	6	5	6	1	2	2
Kakamega	16	2	2	2	1	3	2	3	1	1	1
Kericho	11	4	4	5	2	5	6	6	2	5	1
Kiambu	52	10	7	10	5	11	11	12	2	6	0
Kilifi	11	3	3	3	1	4	7	6	2	2	0
Kirinyaga	22	3	1	3	2	4	1	1	0	1	0
Kisii	18	3	3	4	1	4	6	6	1	2	0
Kisumu	17	6	4	7	4	8	8	7	1	3	3
Kitui	13	4	2	5	2	4	4	4	1	3	0
Kwale	4	2	1	1	0	1	0	1	0	0	0
Laikipia	4	2	1	2	2	2	1	1	0	1	0
Lamu	3	0	1	0	0	1	2	2	0	0	1
machakos	8	3	2	3	2	3	4	4	0	3	0
makueni	12	3	1	4	1	4	2	2	0	0	0
Mandera	5	2	1	2	1	2	1	1	0	1	0
marsabit	4	2	1	1	0	1	1	1	0	0	0
Meru	25	6	4	8	5	6	8	7	0	2	2
Migori	13	2	4	3	0	3	5	5	3	3	3
Mombasa	15	7	6	9	6	5	11	10	2	5	1
Muranga	10	5	3	6	4	6	4	5	1	2	3
Nairobi	78	16	14	13	8	16	17	22	6	8	4
Nakuru	17	10	6	11	6	13	12	9	2	5	2
Nandi	5	2	0	2	1	2	0	0	0	0	0
Narok	7	2	1	1	1	1	1	1	0	1	0
Nyamira	8	1	1	2	1	1	1	1	1	0	1
Nyandarua	13	3	1	4	2	3	2	3	1	0	0
Nyeri	40	7	5	9	5	7	10	10	0	3	0
Samburu	4	1	1	1	1	1	1	1	1	1	0
Siaya	8	1	2	1	1	2	3	3	0	2	1
Taita Taveta	3	1	1	1	1	1	2	2	0	0	0
Tana River	3	1	0	1	0	1	1	0	0	0	0
Tharaka Nithi	7	3	0	3	2	3	1	1	0	0	0
Trans Nzoia	6	3	1	2	2	4	1	1	0	1	0
Turkana	7	2	0	1	1	3	1	0	0	0	0
Uasi Gishu	12	3	2	4	2	4	3	3	0	3	2
Vihiga	8	1	1	0	1	1	2	2	0	2	0
Wajir	11	2	0	2	1	2	2	2	0	0	0
West Pokot	5	2	0	2	1	2	0	0	0	0	1
<b>Grand Total</b>	<b>607</b>	<b>153</b>	<b>97</b>	<b>170</b>	<b>95</b>	<b>179</b>	<b>170</b>	<b>171</b>	<b>30</b>	<b>76</b>	<b>30</b>

**Table 50: County specific availability of Laboratory unit equipment**

	No. of facilities	No with laboratories	Total numbers of laboratory units equipments																					
			Analytical weighing balance	Binocular microscope	Blood bank refrigerator	Blood cell counter	Calorimeter	Centrifuge	Glucose meter	Haemoglobinometer	Weighing scale adult	Hot air oven	Bilirubin meter	Incubator laboratory	PH meter	Water distiller	Electrophoresis apparatus	Neuber chamber	Autoclave	CD4 Machine	ECT Machine	Dissecting microscope	CO <sub>2</sub> jar	Refrigerator for reagents
Baringo	169	10	11	30	6	6	8	37	32	29	7	2	2	5	3	3	0	6	5	0	0	2	0	23
Bomet	111	10	11	32	5	8	11	29	23	42	9	4	4	2	3	3	0	5	2	1	0	2	1	17
Bungoma	141	20	18	86	12	13	19	62	52	58	11	8	6	10	6	7	0	13	10	4	0	4	5	32
Busia	80	9	10	39	8	6	12	28	24	24	1	6	1	6	0	1	0	5	3	2	0	0	2	22
Elgeyo Marakwet	116	6	6	25	5	3	6	21	18	11	1	4	1	4	3	1	0	2	4	1	0	2	0	9
Embu	149	22	16	86	13	16	17	58	68	54	13	11	2	18	3	2	1	7	16	2	0	1	8	64
Garissa	129	13	9	48	5	10	10	31	42	43	11	6	4	8	9	3	0	4	13	2	1	0	4	22
Homa Bay	180	19	17	68	9	10	17	51	52	57	16	13	9	9	5	9	1	7	13	11	0	2	4	30
Isiolo	41	3	3	12	1	1	2	13	6	5	5	1	1	1	1	0	0	3	3	1	0	0	1	7
Kajiado	224	26	25	70	15	25	28	77	76	67	28	11	7	20	9	9	2	15	23	4	1	1	6	55
Kakamega	229	20	17	85	12	13	27	54	63	52	5	9	3	13	3	6	2	11	7	9	1	4	2	43
Kericho	174	15	10	47	8	7	11	49	45	53	11	8	3	10	3	5	0	10	10	3	0	1	4	34
Kiambu	346	52	35	137	22	31	43	156	172	120	61	27	13	29	15	24	6	21	44	12	5	21	13	135
Kilifi	199	26	21	82	9	30	21	66	81	63	23	16	7	15	4	7	3	27	23	5	1	4	5	53
Kirinyaga	142	21	19	71	8	11	22	64	78	53	19	7	6	10	5	5	2	11	15	2	1	3	5	52
Kisii	140	18	22	69	12	13	12	44	46	46	17	11	3	10	7	10	2	10	19	5	0	3	8	34
Kisumu	154	28	32	66	18	26	26	54	64	61	25	22	14	24	24	20	2	20	31	13	2	4	15	50
Kitui	313	24	14	93	9	6	14	68	77	73	30	12	4	9	15	12	0	8	14	4	0	2	7	48
Kwale	95	12	8	37	3	10	8	27	36	42	12	5	3	11	4	5	0	7	15	1	1	3	2	23
Laikipia	86	13	13	32	7	8	8	30	39	28	14	13	7	10	5	3	4	10	16	2	0	0	4	29
Lamu	42	5	7	12	3	5	6	11	12	9	3	2	1	6	3	2	2	4	2	0	0	1	2	11
machakos	255	29	29	93	8	13	28	66	97	67	34	16	6	21	10	9	4	14	27	5	0	3	8	69
makueni	184	23	23	77	7	9	25	67	77	62	20	11	2	17	7	6	2	8	16	6	2	5	5	49
Mandera	64	5	3	19	3	5	3	17	17	12	7	0	1	1	2	1	0	2	8	0	0	1	1	14
marsabit	89	9	15	23	7	11	13	18	20	20	10	3	6	5	7	9	1	3	10	3	0	2	0	16
Meru	361	37	23	134	16	22	27	111	127	87	33	13	13	20	11	6	0	10	25	7	2	5	10	107
Migori	169	19	26	74	21	13	13	41	49	51	23	10	5	12	10	9	1	7	17	4	1	1	6	29
Mombasa	293	41	29	116	21	38	38	107	114	87	40	26	13	29	16	19	11	34	39	10	2	6	15	86
Muranga	184	30	17	103	11	15	29	93	113	85	19	9	9	12	14	8	2	5	14	2	5	5	7	75
Nairobi	868	96	112	224	49	84	92	241	240	188	102	81	52	92	45	50	15	50	109	26	13	12	41	202
Nakuru	317	47	42	121	22	38	47	139	152	109	42	24	18	38	19	12	7	23	33	6	10	9	14	102
Nandi	175	11	10	33	5	6	8	41	34	39	5	3	2	4	2	4	1	6	2	1	2	2	0	27
Narok	129	11	10	34	4	10	14	34	28	29	13	7	2	9	3	4	2	5	5	2	0	1	1	14
Nyamira	114	11	6	45	2	1	3	32	43	33	11	4	1	3	1	5	0	4	6	2	0	0	4	25
Nyandarua	116	15	10	42	6	8	14	52	51	40	7	4	3	10	5	1	1	5	12	3	4	2	4	37
Nyeri	245	30	26	88	11	19	27	94	113	80	8	11	9	17	8	11	2	10	18	8	1	6	9	82
Samburu	71	4	4	10	1	3	3	12	10	12	3	1	1	1	1	2	1	2	3	0	0	1	1	10
Siaya	155	19	21	66	18	15	12	47	44	58	19	11	5	6	7	8	3	6	13	7	0	5	6	43
Taita Taveta	81	10	8	35	5	5	8	24	30	24	11	4	1	6	1	2	0	5	10	3	0	1	2	28
Tana River	49	1	2	5	1	0	1	4	6	3	1	1	0	0	1	0	0	2	1	0	0	0	1	3
Tharaka Nithi	116	12	5	62	4	3	7	30	51	37	8	4	2	9	2	2	0	5	6	3	0	2	2	22
Trans Nzoia	137	13	16	40	6	5	17	49	37	38	10	5	3	9	4	4	0	5	14	2	0	0	2	25
Turkana	136	6	8	14	1	6	5	14	16	16	12	2	2	3	5	3	1	1	5	2	0	1	1	9
Uasi Gishu	146	19	21	48	11	17	26	51	43	41	17	17	12	13	11	7	3	14	18	0	0	5	5	31
Vihiga	87	8	6	30	4	7	8	24	28	27	2	5	1	8	4	2	1	3	2	2	0	1	1	14
Wajir	110	7	9	28	3	5	7	21	23	18	5	2	4	4	3	1	0	3	4	1	0	0	2	14
West Pokot	84	4	6	26	3	2	4	13	9	9	2	0	0	2	1	1	0	3	2	0	0	1	0	9
Grand Total	7995	885	811	2817	440	618	807	2472	2678	2262	786	472	274	581	330	323	85	441	707	189	55	137	246	1935

**Table 51: County specific availability of OPD and minor theatre equipment**

	No of facilities	No with OPD's	No with minor theatres	Total number of OPD and minor theatre equipments										
				OPD								Minor theatre		
				Examination couch	Infant weighing scale	Screen bed	Weighing scale adult	Wheel chair adult	Diagnostic set	X-Ray viewer	Suction machine, electrical	Oxygen Set	Operating table, simple	Examination couch metal/wooden
Baringo	169	38	3	129	77	1	90	8	24	3	5	6	1	4
Bomet	111	27	3	89	45	0	61	13	16	2	4	5	2	4
Bungoma	141	34	12	107	49	0	64	28	23	9	14	8	10	13
Busia	80	18	11	58	25	1	34	15	10	6	8	4	7	14
Elgeyo Marakwet	116	20	5	74	35	0	38	13	7	1	8	5	3	6
Embu	149	37	8	111	55	0	82	17	30	12	14	11	7	9
Garissa	129	21	4	64	30	3	50	12	18	2	3	4	4	4
Homa Bay	180	52	17	132	101	2	114	36	34	9	14	13	15	18
Isiolo	41	11	1	33	19	1	24	8	7	1	5	2	1	0
Kajiado	224	68	12	149	94	35	119	47	66	18	40	31	10	14
Kakamega	229	51	15	164	64	0	115	36	42	10	20	9	13	17
Kericho	174	40	8	123	73	2	92	18	21	8	13	7	6	9
Kiambu	346	98	24	236	140	18	189	74	89	41	51	39	16	31
Kilifi	199	57	12	144	82	32	109	34	37	12	36	21	8	15
Kirinyaga	142	38	7	103	48	9	86	17	35	11	15	12	6	8
Kisii	140	40	21	96	80	1	89	28	30	10	14	14	18	23
Kisumu	154	58	27	120	100	6	110	48	52	20	29	27	28	26
Kitui	313	71	14	235	110	3	184	33	43	7	18	7	9	18
Kwale	95	24	5	78	26	12	58	17	13	3	6	1	4	5
Laikipia	86	25	4	69	38	2	50	12	28	3	13	9	3	5
Lamu	42	12	4	32	14	6	26	5	10	2	4	3	3	5
machakos	255	63	17	193	104	1	146	32	40	15	22	13	12	21
makueni	184	47	5	152	75	3	107	28	35	6	6	9	3	6
Mandera	64	10	3	29	15	2	22	3	6	4	5	1	3	3
marsabit	89	22	5	62	37	0	48	10	18	5	9	5	5	5
Meru	361	66	15	212	94	1	145	33	41	22	24	19	12	17
Migori	169	47	22	121	88	4	100	29	36	10	19	15	20	24
Mombasa	293	77	19	170	88	9	149	74	86	33	45	27	18	19
Muranga	184	49	9	148	73	13	103	25	43	12	14	8	8	9
Nairobi	868	209	53	388	271	64	346	171	188	115	120	125	52	54
Nakuru	317	98	19	238	131	79	189	56	78	26	44	35	17	21
Nandi	175	30	7	94	43	9	60	19	16	5	13	7	3	10
Narok	129	30	7	75	51	10	59	23	20	5	12	8	5	8
Nyamira	114	34	7	98	65	1	79	17	25	5	15	4	6	7
Nyandarua	116	34	7	83	45	9	63	16	47	15	12	11	6	7
Nyeri	245	56	14	157	62	12	107	30	80	20	21	13	11	17
Samburu	71	16	5	49	31	0	42	4	10	1	5	2	3	6
Siaya	155	49	16	130	80	3	103	40	35	12	22	16	14	17
Taita Taveta	81	24	3	63	26	27	48	14	21	4	6	3	2	4
Tana River	49	13	1	36	24	17	24	2	8	0	4	0	1	0
Tharaka Nithi	116	32	2	90	69	6	68	18	15	4	6	8	3	1
Trans Nzoia	137	26	5	76	37	1	55	18	27	5	10	6	3	7
Turkana	136	23	3	57	57	1	61	8	5	1	5	4	3	3
Uasi Gishu	146	36	10	96	64	0	74	26	23	8	16	14	9	11
Vihiga	87	17	7	62	23	0	32	9	18	4	6	2	5	8
Wajir	110	14	3	63	15	2	30	3	6	1	6	2	2	4
West Pokot	84	14	3	49	27	1	30	6	8	2	2	1	2	3
Grand Total	7995	1972	471	5337	3000	409	4074	1233	1570	530	803	596	402	540

**Table 52: County specific availability of Pharmacy, eye, ENT and dental unit equipments**

	No of hospitals	No with pharmacy units	No with eye units	No with ENT units	No with dental units	Total numbers of equipments for pharmacy, eye, ENT, dental units													
						PHARMACY			EYE UNIT			ENT				DENTAL UNIT			
						Pharmaceutical Fridge	Precision Balance	Weighing scale (electronic)	Eye Chart E-type	Eye charts	Direct Ophthalmoscope	ENT Diagnostic Set	Audiometer, diagnostic	ENT Treatment Chair	ENT Table	Amalgamator	Dental chair unit	Suction machine	X-ray viewer
Baringo	7	2	3	1	2	6	0	0	3	4	3	2	1	1	1	3	3	3	0
Bomet	5	2	2	1	3	3	1	1	2	2	2	2	1	1	1	3	4	3	1
Bungoma	11	5	4	1	3	8	3	3	5	3	4	3	1	1	0	3	4	4	1
Busia	7	3	1	1	1	7	0	1	0	1	1	2	0	1	1	1	1	1	1
Elgeyo Marakwet	9	2	3	0	2	4	1	0	2	3	3	1	0	0	0	2	2	1	1
Embu	8	2	2	0	4	6	0	0	2	2	2	0	0	0	0	4	4	3	3
Garissa	9	2	2	0	1	5	2	2	2	1	2	1	0	0	0	2	2	1	2
Homa Bay	13	4	3	1	3	7	3	1	3	5	2	1	1	1	1	3	2	3	3
Isiolo	3	0	2	1	1	1	0	0	2	2	1	1	0	1	1	1	1	0	0
Kajiado	30	3	2	2	3	11	4	0	4	3	3	3	1	1	1	4	6	6	4
Kakamega	16	5	5	3	3	11	1	2	6	6	3	4	3	2	1	3	4	3	3
Kericho	11	4	5	2	3	8	2	1	6	4	4	3	1	1	1	3	3	3	2
Kiambu	52	7	6	5	10	14	3	3	4	6	6	8	3	2	3	12	12	9	6
Kilifi	11	3	3	2	4	6	1	1	3	3	2	3	2	3	1	5	5	4	2
Kirinyaga	22	2	1	0	1	4	1	0	2	1	1	0	0	0	1	2	2	0	0
Kisii	18	7	2	1	5	14	5	2	3	3	1	2	1	1	1	5	5	4	5
Kisumu	17	8	3	3	4	13	7	4	3	3	3	4	2	2	2	5	5	3	4
Kitui	13	4	4	1	3	6	3	3	4	4	4	2	0	1	1	2	3	3	2
Kwale	4	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0
Laikipia	4	1	1	0	1	2	0	0	1	1	1	1	0	0	0	1	2	1	1
Lamu	3	1	1	0	1	2	0	0	1	1	1	0	0	0	0	1	2	0	1
Machakos	8	3	2	1	4	6	3	1	2	1	2	3	0	0	0	4	5	4	2
Makueni	12	2	1	1	2	5	0	1	1	2	1	1	0	1	1	2	4	2	0
Mandera	5	2	1	0	1	3	2	1	0	1	1	1	0	0	0	1	1	0	0
Marsabit	4	1	2	1	1	2	0	0	3	4	0	2	0	1	0	1	2	1	0
Meru	25	6	4	2	5	14	4	1	4	4	3	3	2	2	1	5	6	5	3
Miqori	13	3	2	1	2	8	1	1	2	2	1	1	2	0	0	3	2	2	0
Mombasa	15	6	5	1	6	11	4	4	6	3	6	2	2	1	0	5	7	6	4
Muranga	10	2	1	1	2	5	2	0	3	1	0	1	1	1	1	1	3	1	3
Nairobi	78	18	11	8	19	25	8	11	7	10	8	10	3	5	4	17	18	19	10
Nakuru	17	9	3	2	6	14	6	5	3	4	3	4	1	1	1	6	8	6	3
Nandi	5	1	1	1	1	4	0	0	2	0	1	2	0	0	0	2	2	0	0
Narok	7	3	2	0	2	3	1	0	1	1	1	0	0	0	0	1	2	2	1
Nyamira	8	2	1	1	1	5	1	1	1	1	0	1	1	1	1	1	1	1	0
Nyandarua	13	2	1	1	2	5	1	1	1	1	1	2	1	0	1	2	2	2	1
Nyeri	40	5	7	5	7	10	2	2	6	7	8	8	4	5	3	8	10	7	4
Samburu	4	1	0	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	0
Siaya	8	3	2	0	2	6	3	1	2	3	1	0	0	0	0	3	3	2	1
Taita Taveta	3	1	1	0	1	2	1	0	1	1	0	1	0	0	0	2	1	1	1
Tana River	3	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0
Tharaka Nithi	7	2	2	1	1	6	1	0	2	2	2	2	0	0	0	1	1	1	0
Trans Nzoia	6	1	1	0	1	4	0	0	1	1	1	0	0	1	0	1	1	1	0
Turkana	7	2	2	0	0	4	2	1	3	3	1	1	0	0	0	0	0	0	0
Uasi Gishu	12	2	3	2	2	6	0	1	4	4	2	4	1	1	1	2	2	1	2
Vihiga	8	1	1	0	1	3	0	0	2	0	0	0	0	0	0	1	1	1	0
Wajir	11	0	1	0	0	1	0	0	1	1	1	0	0	0	0	0	2	1	0
West Pokot	5	1	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	0	0
<b>Grand Total</b>	<b>607</b>	<b>148</b>	<b>112</b>	<b>53</b>	<b>125</b>	<b>297</b>	<b>81</b>	<b>57</b>	<b>116</b>	<b>115</b>	<b>94</b>	<b>94</b>	<b>35</b>	<b>40</b>	<b>31</b>	<b>134</b>	<b>160</b>	<b>125</b>	<b>77</b>

**Table 53: County specific availability of ward equipment**

	No of hospitals	No with wards	Total number of ward equipments											
			Commode chair	Cool box	Hospital bed	Baby cot	Examination lamp, mobile	Infant weighing scale	Refrigerator	Tape measure	Weighing scale adult with height measuring	Wheel chair adult	Manual suction machine	Oxygen giving set
Baringo	7	3	0	1	6	5	2	3	1	2	2	3	2	4
Bomet	5	2	0	1	5	1	2	1	1	1	1	2	2	2
Bungoma	11	5	2	1	10	5	4	7	3	4	3	5	4	8
Busia	7	3	2	3	7	3	0	3	0	1	1	6	5	3
Elgeyo Marakwet	9	3	2	1	7	5	4	3	1	2	2	4	5	3
Embu	8	3	0	1	7	5	3	3	1	2	1	6	4	5
Garissa	9	3	1	3	6	4	3	5	4	4	3	4	5	4
Homa Bay	13	6	4	3	10	8	6	4	4	3	6	6	7	8
Isiolo	3	1	0	1	2	2	1	2	1	1	1	1	1	1
Kajiado	30	3	0	2	1	2	4	4	3	2	4	4	4	2
Kakamega	16	7	3	4	15	9	9	6	2	7	4	8	9	8
Kericho	11	5	1	3	8	5	7	7	4	3	4	7	5	7
Kiambu	52	11	3	6	16	13	12	10	7	10	11	15	11	13
Kilifi	11	5	4	1	8	3	6	4	5	5	6	6	6	4
Kirinyaga	22	2	0	0	2	4	1	4	1	3	3	1	2	3
Kisii	18	8	4	7	14	12	6	8	2	6	6	6	11	8
Kisumu	17	10	6	11	16	5	9	10	6	7	10	11	11	13
Kitui	13	3	2	1	7	3	2	0	0	1	4	2	5	4
Kwale	4	2	0	0	2	2	0	1	0	1	1	1	1	2
Laikipia	4	3	2	3	4	3	4	3	2	3	1	2	4	3
Lamu	3	1	0	0	2	0	0	0	0	0	0	2	1	1
machakos	8	4	1	4	6	6	5	4	4	2	3	4	4	5
makueni	12	3	1	1	6	4	5	5	2	2	0	5	4	2
Mandera	5	2	1	1	3	4	1	2	2	0	2	1	3	0
marsabit	4	3	2	3	4	3	3	4	1	3	3	3	3	2
Meru	25	8	1	6	13	6	7	9	5	7	8	10	10	9
Migori	13	5	3	4	11	4	7	4	3	5	6	6	6	4
Mombasa	15	7	6	6	7	8	9	7	9	7	6	7	8	7
Muranga	10	4	2	4	5	2	3	4	2	2	4	4	5	5
Nairobi	78	15	9	11	17	13	14	13	10	13	11	15	8	15
Nakuru	17	10	5	8	13	9	10	11	8	8	8	11	8	12
Nandi	5	2	1	0	5	4	2	2	0	0	1	4	4	4
Narok	7	2	0	1	3	2	1	2	0	2	2	3	1	1
Nyamira	8	2	0	1	5	1	5	2	0	2	2	3	2	1
Nyandarua	13	3	1	2	3	2	5	4	3	1	3	2	4	5
Nyeri	40	7	3	6	10	6	9	9	7	7	5	4	9	8
Samburu	4	1	1	1	2	1	1	1	1	1	1	2	2	1
Siaya	8	4	1	1	5	4	6	4	4	2	3	4	8	3
Taita Taveta	3	1	1	1	2	2	2	1	2	0	0	2	0	2
Tana River	3	1	0	1	1	0	0	1	0	0	0	2	2	2
Tharaka Nithi	7	3	2	2	6	4	4	4	2	3	2	3	3	5
Trans Nzoia	6	3	1	2	4	4	4	1	1	3	2	3	3	4
Turkana	7	3	0	2	5	2	3	4	1	1	2	4	3	3
Uasi Gishu	12	4	2	2	7	5	6	3	3	3	3	5	5	5
Vihiga	8	1	0	0	3	1	2	2	1	0	1	2	1	2
Wajir	11	2	1	0	6	2	2	3	1	3	2	2	4	3
West Pokot	5	2	0	1	5	3	2	4	0	3	4	2	2	2
Grand Total	607	186	81	124	312	201	203	198	120	148	158	215	217	218

**Table 54: County specific availability of physiotherapy unit equipment**

	No of hospitals	No with physiotherapy units	No of physiotherapy unit equipments								
			TENS Unit	Stimulator, electric	Static bicycle	Wheel chair	Walking frame	Cervical traction	Lumber traction	Cryotherapy	Phototherapy unit
Baringo	7	1	2	1	2	0	2	2	1	1	1
Bomet	5	2	2	1	3	1	2	1	1	1	3
Bungoma	11	4	4	4	6	3	4	3	6	1	3
Busia	7	2	3	2	4	2	4	0	2	1	0
Elgeyo Marakwet	9	1	2	1	1	1	2	1	1	1	1
Embu	8	2	4	2	3	3	4	2	1	0	1
Garissa	9	0	1	2	3	1	1	1	1	2	1
Homa Bay	13	2	3	3	3	4	3	1	0	0	1
Isiolo	3	0	0	1	1	1	1	0	0	0	0
Kajiado	30	2	2	3	4	3	2	1	1	1	0
Kakamega	16	4	5	3	6	5	5	3	3	2	2
Kericho	11	3	4	2	1	3	4	1	3	4	2
Kiambu	52	7	8	5	6	7	9	3	4	4	5
Kilifi	11	3	5	3	3	1	4	4	3	2	2
Kirinyaga	22	1	1	2	1	1	1	0	0	0	1
Kisii	18	3	2	3	2	5	5	2	3	2	3
Kisumu	17	4	3	4	6	6	6	1	2	2	2
Kitui	13	1	1	0	2	1	2	0	0	0	1
Kwale	4	2	1	2	2	1	1	1	2	1	1
Laikipia	4	0	0	0	1	1	0	1	1	0	0
Lamu	3	1	1	0	2	1	2	0	0	0	1
machakos	8	4	6	3	6	4	6	4	3	4	2
makueni	12	2	3	3	5	3	2	0	0	0	0
Mandera	5	1	0	1	1	1	1	1	1	1	1
marsabit	4	1	2	2	2	1	1	0	1	0	0
Meru	25	4	4	4	7	6	6	2	2	2	4
Migori	13	3	4	4	2	2	2	2	1	4	2
Mombasa	15	4	6	3	6	5	6	3	3	6	2
Muranga	10	2	2	1	4	3	3	1	1	3	1
Nairobi	78	13	14	11	12	14	16	9	10	11	6
Nakuru	17	6	6	9	6	9	7	5	6	3	4
Nandi	5	1	2	1	2	0	1	0	1	1	1
Narok	7	1	1	1	1	0	1	0	0	0	0
Nyamira	8	1	1	1	2	0	1	1	2	2	0
Nyandarua	13	1	2	2	3	1	3	1	0	0	0
Nyeri	40	4	6	5	8	4	4	4	3	2	4
Samburu	4	1	1	1	1	1	1	0	1	0	0
Siaya	8	1	1	0	3	1	1	0	0	0	0
Taita Taveta	3	1	1	1	2	0	0	1	0	1	0
Tana River	3	1	1	0	1	2	2	0	0	0	0
Tharaka Nithi	7	1	2	1	2	1	2	1	0	1	1
Trans Nzola	6	1	1	2	1	1	1	1	1	1	0
Turkana	7	1	0	1	2	1	1	1	1	1	0
Uasi Gishu	12	1	1	0	0	2	2	0	1	2	1
Vihiga	8	1	1	1	2	1	1	1	1	0	0
Wajir	11	1	0	1	0	1	1	0	0	1	1
West Pokot	5	1	1	1	1	1	1	0	1	1	1
Grand Total	607	102	123	104	144	116	137	66	75	72	62

**Table 55: County specific availability of sanitation and mortuary equipments**

County	No of hospitals	No with mortuary units	Autopsy table	Cold room units	Viewing table	Preparation table
Baringo	7	3	3	2	3	3
Bomet	5	3	3	3	3	3
Bungoma	11	2	4	3	1	1
Busia	7	1	1	2	1	1
Elgeyo-Marakwet	9	3	3	3	2	4
Embu	8	4	4	5	3	5
Garissa	9	1	1	1	2	1
Homa Bay	13	3	3	3	3	3
Isiolo	3	1	1	1	0	1
Kajiado	30	2	2	2	1	1
Kakamega	16	3	3	3	1	3
Kericho	11	3	4	3	2	1
Kiambu	52	5	5	6	3	5
Kilifi	11	3	2	3	2	3
Kirinyaga	22	2	2	1	2	2
Kisii	18	6	6	6	5	5
Kisumu	17	6	7	5	6	6
Kitui	13	3	3	1	3	3
Kwale	4	1	1	1	0	1
Laikipia	4	1	1	1	1	0
Lamu	3	1	0	1	1	1
Machakos	8	3	3	4	2	3
Makueni	12	3	3	3	2	2
Mandera	5	0	0	0	0	0
Marsabit	4	1	1	1	1	0
Meru	25	5	4	4	4	6
Migori	13	4	4	4	4	4
Mombasa	15	5	5	4	5	5
Muranga	10	4	3	3	3	3
Nairobi	78	7	5	7	7	6
Nakuru	17	9	5	10	10	9
Nandi	5	2	2	1	2	1
Narok	7	1	1	1	0	1
Nyamira	8	1	1	1	0	1
Nyandarua	13	2	0	2	2	3
Nyeri	40	7	6	8	7	6
Samburu	4	1	1	0	0	1
Siaya	8	4	4	4	3	3
Taita Taveta	3	1	1	2	1	0
Tana River	3	1	0	0	1	1
Tharaka Nithi	7	2	3	2	2	2
Trans-Nzoia	6	1	1	1	0	1
Turkana	7	3	2	2	3	3
Uasin Gishu	12	3	3	2	2	3
Vihiga	8	1	1	0	1	1
Wajir	11	0	0	0	0	0
West Pokot	5	1	1	1	1	1
<b>Grand Total</b>	<b>607</b>	<b>120</b>	<b>119</b>	<b>123</b>	<b>108</b>	<b>119</b>

## 4.6 Health Workforce availability

The human resource for health is one of the key health sector pillars for service interventions and inputs. From the SARAM information, the different health workforce cadres are found across the Counties. Of the total human Resources for Health (HRH) work force, 56% are females with the highest concentration in the nursing, clerks, medical social worker and supportive staff cadres with over 55%. Major Disperities were in economists, occupational therapists, medical engineering, environmental health and drivers with more than two thirds in one gender or sex. The doctor population ratio was less than one (<1) to 10,000 population but the nurse population ratio was 3 per 10,000 and 1 registered clinical officer to 10,000 population. The rest are all less than one (<1) per 10,000 persons. The numbers by gender/sex and health worker densities are shown below.

**Table 56: Human Resource for Health classification per cadre density and sex**

Sno	Cadres	Total numbers	Cadres per 10,000 population	Male	Female	% male	% female
1	Medical officers	2239	0.54	1565	674	69.9%	30.1%
2	RCO	4723	1.13	3056	1667	64.7%	35.3%
3	BSC Nursing	772	0.19	268	504	34.7%	65.3%
4	KRCHN	14214	3.41	3970	10244	27.9%	72.1%
5	KECHN	9201	2.21	2380	6821	25.9%	74.1%
6	Occupational Therapist	310	0.07	217	93	70.0%	30.0%
7	Dentist	186	0.04	116	70	62.4%	37.6%
8	Dental Technologist	180	0.04	108	72	60.0%	40.0%
9	Pharmacists	552	0.13	333	219	60.3%	39.7%
10	Pharmaceutical Technologist	1144	0.27	610	534	53.3%	46.7%
11	Physiotherapist	477	0.11	319	158	66.9%	33.1%
12	Orthopaedic technologist	144	0.03	97	47	67.4%	32.6%
13	Medical Social worker	291	0.07	99	192	34.0%	66.0%
14	Plaster technicians	206	0.05	85	121	41.3%	58.7%
15	Laboratory Technologists	2909	0.70	1708	1201	58.7%	41.3%
16	Laboratory Technician	1515	0.36	715	800	47.2%	52.8%
17	Health Record & Information Officers	497	0.12	267	230	53.7%	46.3%
18	Health Record & Information Technicians	347	0.08	148	199	42.7%	57.3%
19	Nutritionists	496	0.12	136	360	27.4%	72.6%
20	Public health officer	1232	0.30	872	360	70.8%	29.2%
21	Public health technician	737	0.18	539	198	73.1%	26.9%
22	Health Administrative Officer	413	0.10	282	131	68.3%	31.7%
23	Medical Engineering	417	0.10	344	73	82.5%	17.5%
24	ICT Officer	207	0.05	119	88	57.5%	42.5%
25	Procurement Officer	239	0.06	138	101	57.7%	42.3%
26	Accountant	583	0.14	368	215	63.1%	36.9%
27	Drivers	845	0.20	796	49	94.2%	5.8%
28	Clerk/cashier	2492	0.60	917	1575	36.8%	63.2%
29	Cooks	452	0.11	168	284	37.2%	62.8%
30	Store Man	131	0.03	80	51	61.1%	38.9%
31	Support Staff (Casuals)	9682	2.32	4277	5405	44.2%	55.8%
32	Trained CHW	395	0.09	169	226	42.8%	57.2%
33	Radiographer	347	0.08	262	85	75.5%	24.5%
34	Community Oral H/ Officer	150	0.04	72	78	48.0%	52.0%
35	Biochemist	10	0.00	4	6	40.0%	60.0%
36	Economist	6	0.00	6		100.0%	0.0%
37	Social Worker	28	0.01	9	19	32.1%	67.9%
38	Other	8306	1.99	4124	4182	49.7%	50.3%
	<b>Grand Total</b>	<b>67075</b>	<b>16.08</b>	<b>29743</b>	<b>37332</b>	<b>44.3%</b>	<b>55.7%</b>

Most of the specialisations were general physicians, pharmacists, public health specialists and midwifery across all counties. It is important to note that some specializations were not found in some counties. These staff cadres are distributed at the County level as shown overleaf.



**Table 57: Availability of different Specializations, by County**

County	Physicians	Obstetrician / gynaecology	Paediatrician	Surgery	Orthodontists	Psychiatry	Ophthalmologists	ENT specialist	Dermatologist	Anesthesiologists	Pathologist	Radiologist	Ophthalmologists	Prosthodontists	Urological surgeon	Pharmacist	Anaesthesiologist	Public Health specialist	Dental	Critical Care Nursing (ICU)	Orthopaedic	Theatre Nursing	Midwifery	All other specialisations	Grand Total
Baringo	1	3	2	2				1		2						14		123			3		38	913	1102
Bomet			2													5		26					2	774	809
Bungoma	37	3	5	5			1	13		7	1	3				18		23	4		4	1	18	1321	1464
Busia	1	1	3	2				6		2						10		16					12	820	873
Elgeyo Marakwet	5		2	1			3			4						1		67			1	1	9	488	582
Embu	14	7	8	9	8	3	12	12	1	19	5	5				54		53	23	8	8	14	81	2622	2966
Garissa	9	6	1	4		1		3			1	1	1			30	12	25	4		1	4	4	1142	1249
Homa Bay	17	2	4			2		2		1						16		21	1	3		1	41	1067	1178
Isiolo	1	2	2	1	1		3	2		2						4		3	1	1				527	550
Kajiado	2	3	4	3				1		2		1				11		12				1	3	469	512
Kakamega	10	3	7	5		3	6	13		9		3			1	37		30	6	3	1	5	61	1956	2159
Kericho	10	1	5	3			3	1		5		1				22		29	7	2	2	2	37	944	1074
Kiambu	41	9	18	13		5	2	3		11	3	8				93		60	7	5	3	10	145	3583	4022
Kilifi	1	2	7	1			3	2		4						20		58	2		1	2	53	1036	1192
Kirinyaga	1	1	2	1		1				2						22		13			1		11	1135	1190
Kisii	15		5	2						1						7		34	2	1			67	542	676
Kisumu	30	6	14	8		1		1		4	2	13				26		35	5	8	6	2	40	883	1084
Kitui	3	7	7	6		1	5	2		2		1				22		54	6	1	2	2	37	1334	1492
Kwale	1	1	2	1						3						6		55	2			1	39	686	797
Laikipia	4	2	2	3			2	3		10		2				28		42	4				18	1282	1402
Lamu	1			5			1			1						2		2						130	142
Machakos	20	8	16	7		3	3	4		17	2	2		1	1	34		71	10	1	6		65	2171	2442
makueni	11	5	5	1		2				8						21		56			1		59	922	1091
Mandera	4	1					1			6						9		20					2	430	473
Marsabit	2		3	4				1		6		2				4		65	2				34	624	747
meru	12	8	12	10		2	13	10		18	2	4				36		48	22	2	11	4	76	2313	2605
Migori	25	2	1	5			1	3		1						11		46		2		1	66	863	1027
Mombasa	34	44	42	23		3	6	9		33	2	25				159		39	26	32	20	13	85	4099	4694
Muranga	2		3			1	1	1								14		33				1	10	757	823
Nairobi	43	34	48	50	3	17	18	15	9	43	6	14				1		47	12	142	8	32	89	5167	5807
Nakuru	28	5	23	6		2	5	5		19	1	14				81		117	16	6	4	12	63	3463	3873
Nandi	8		4	5		1		1	1	4	3					9		20	2	17		2	47	989	1115
Narok	7	4	2	3												17		31	1			2	13	622	702
Nyamira	18	3	1	3				2								10		42	2	2			46	548	677
Nyandarua	31	5	2	1		1		2	3	4	6	2		1		6		14	13	3	4	1	84	938	1121
Nyeri	2	1	9	7		2	4	2		6	1	3				4		11	9	3	5	3	30	964	1066
Samburu			1				1			3						1		12			1		7	498	524
Siaya	19	5	6	1				1								27		36	1		3		36	893	1028
Taita Taveta	2	1	4	4				2		4		1				15		31	5		2		5	705	781
Tana River	1						1			1								20					41	190	254
Tharaka Nithi	1	1	5	1		2	1	4		3		2				24		34	1		1		16	1116	1212
Trans Nzoia	2	4	6	3	1	2	2	4		7						21		31			4		47	1117	1251
Turkana	1	3	1	1				2								8		11				1	1	422	451
Uasin Gishu	19	10	19	21	1	21	10	12	7	24		5				24		80		4	7		63	3796	4123
Vihiga	2	2	4	2			6	2		2						5		20	2		1		22	666	736
Wajir	2	1	1				3			1						17		26				1	2	824	880
West Pokot	1	1	4				1	5		3					1	15		65		1			3	957	1057
Grand Total	501	207	324	233	14	76	118	152	21	304	35	112	1	16	8	1021	12	1807	198	249	111	119	1728	59708	67075

The highest number of staff reported for any form of absence was in Mombasa (1253), Kiambu (628), Nakuru (557) and Machakos (521) Counties, while the largest proportion was reported in Nyeri 42%, Elgeyo Marakwet 40% and Kericho 34%. Availability of staff at the time of the survey is shown in table 59 below. Less than 10% of staff was not available at work, due to a variety of reasons, as shown in the table by County. Most absences were approved, followed by staff on maternity / sick leave, and then in trainings.

**Table 58: Staff availability, and reasons for absence**

County	Staff present	Staff absent	% Absent	Reasons for staff absence								Grand Total
				Maternity or Sick leave	In training	Official mission	Approved Absence	Gone to retrieve Salary	Not approved absence	Not on shift	All Others	
Baringo	771	327	29.67%	3	312	3	0	2	2	1	4	1102
Bomet	665	137	16.93%	0	137	0	0	0	0	0	0	809
Bungoma	1282	159	10.86%	15	128	3	0	0	0	8	5	1464
Busia	751	117	13.40%	10	93	9	0	0	0	5	0	873
Elgeyo Marakwet	343	233	40.03%	5	228	0	0	0	0	0	0	582
Embu	2494	423	14.26%	29	227	10	0	0	1	10	146	2966
Garissa	1142	94	7.53%	11	52	7	16	0	1	5	2	1249
Homa Bay	927	238	20.20%	13	200	12	0	0	8	3	2	1178
Isiolo	522	27	4.91%	12	9	6	0	0	0	0	0	550
Kajiado	339	170	33.20%	1	34	0	0	0	0	0	135	512
Kakamega	1868	250	11.58%	26	185	3	0	0	0	19	17	2159
Kericho	708	365	33.99%	10	341	3	0	1	3	0	7	1074
Kiambu	3360	628	15.61%	19	302	1	0	0	1	15	290	4022
Kilifi	985	179	15.02%	9	134	5	0	0	0	15	16	1192
Kirinyaga	1120	68	5.71%	2	42	1	0	0	0	2	21	1190
Kisii	413	252	37.28%	12	207	5	0	0	0	11	17	676
Kisumu	827	244	22.51%	10	196	22	0	0	3	5	8	1084
Kitui	1272	208	13.94%	15	169	5	0	0	1	14	4	1492
Kwale	683	107	13.43%	2	39	0	0	0	5	0	61	797
Laikipia	1338	37	2.64%	0	27	1	0	0	0	9	0	1402
Lamu	142	0	0.00%	0	0	0	0	0	0	0	0	142
machakos	1897	521	21.33%	17	69	4	0	0	2	3	426	2442
makueni	839	239	21.91%	1	171	0	0	0	64	0	3	1091
Mandera	441	26	5.50%	3	17	3	0	0	2	0	1	473
Marsabit	589	155	20.75%	19	134	2	0	0	0	0	0	747
Meru	2253	344	13.21%	13	135	8	0	0	0	2	186	2605
Migori	713	290	28.24%	7	243	18	0	0	5	11	6	1027
Mombasa	3429	1253	26.69%	8	1157	17	0	0	0	6	65	4694
Muranga	748	75	9.11%	0	14	0	0	0	2	0	59	823
Nairobi	5379	404	6.96%	4	279	7	0	0	0	27	87	5807
Nakuru	3270	557	14.38%	13	316	5	0	0	5	2	216	3873
Nandi	1110	4	0.36%	3	0	0	0	0	0	0	1	1115
Narok	567	134	19.09%	7	126	0	0	0	1	0	0	702
Nyamira	459	209	30.87%	8	149	29	0	0	3	18	2	677
Nyandarua	958	141	12.58%	4	46	37	0	0	0	5	49	1121
Nyeri	610	447	41.93%	9	361	1	0	0	0	1	75	1066
Samburu	486	35	6.68%	6	19	0	0	1	0	0	9	524
Siaya	732	279	27.14%	18	237	19	0	0	1	2	2	1028
Taita Taveta	730	43	5.51%	1	37	1	0	0	1	0	3	781
Tana River	160	74	29.13%	0	2	5	0	0	0	0	67	254
Tharaka Nithi	975	233	19.22%	2	23	0	0	0	11	0	197	1212
Trans Nzoia	1178	62	4.96%	7	42	3	0	0	1	3	6	1251
Turkana	328	120	26.61%	0	72	1	0	0	1	0	46	451
Uasin Gishu	3737	360	8.73%	31	325	2	0	0	0	0	2	4123
Vihiga	643	50	6.79%	12	31	2	0	0	0	4	1	736
Wajir	820	30	3.41%	9	14	2	0	1	4	0	0	880
West Pokot	1034	13	1.23%	2	11	0	0	0	0	0	0	1057
Grand Total	56037	10361	15.45%	408	7092	262	16	5	128	206	2244	67075

On long term staff trainings, only 12% of the staff has undergone some form of training in the past 2 years. Out of the total staffs that have undergone longterm trainings, 4% of the healthworkers were on Masters

Programmes, 13% on degree programmes, 51% on various Diploma programmes and the rest 32% on certificate programmes. Elgeyo Marakwet (40%), Nyeri (34%) and Kisii (33%) Counties had most health workers that have undergone some formal training in the past 2 years, while Isiolo had the lowest numbers of health workers that have undergone some formal training in the past 2 years. The breakdown of qualifications by County is shown in table 60 below.

**Table 59: Long term staff trainings in the past 2 years**

County	Total Staff	Number Long term Training	% - Training	Qualifications received				
				Certificate	Degree	Diploma	Masters	PhD
Baringo	1102	322	29.22%	115	19	181	7	
Bomet	809	137	16.93%	63	7	65	2	
Bungoma	1464	136	9.29%	23	33	67	13	
Busia	873	98	11.23%	32	13	53		
Elgeyo Marakwet	582	234	40.21%	84	12	135	3	
Embu	2966	247	8.33%	31	32	161	23	
Garissa	1249	59	4.72%	3	20	30	6	
Homa Bay	1178	208	17.66%	59	11	136	2	
Isiolo	550	9	1.64%		7	1	1	
Kajiado	512	41	8.01%	8	2	20	11	
Kakamega	2159	193	8.94%	29	60	91	13	
Kericho	1074	347	32.31%	129	36	176	6	
Kiambu	4022	357	8.88%	114	34	179	26	4
Kilifi	1192	152	12.75%	37	49	57	9	
Kirinyaga	1190	52	4.37%	15	2	29	5	1
Kisii	676	223	32.99%	101	27	91	4	
Kisumu	1084	224	20.66%	72	22	116	13	1
Kitui	1492	177	11.86%	40	31	103	3	
Kwale	797	47	5.90%	8	14	25		
Laikipia	1402	28	2.00%		8	20		
Lamu	142	0	0.00%					
machakos	2442	79	3.24%	19	15	33	12	
makueni	1091	175	16.04%	73	14	86	2	
Mandera	473	18	3.81%	2	9	5	2	
Marsabit	747	136	18.21%	15	13	107	1	
Meru	2605	142	5.45%	23	42	73	4	
Migori	1027	275	26.78%	84	22	165	4	
Mombasa	4694	1173	24.99%	553	110	481	28	1
Muranga	823	20	2.43%	6	4	7		3
Nairobi	5807	326	5.61%	88	53	110	74	1
Nakuru	3873	349	9.01%	80	46	214	9	
Nandi	1115	2	0.18%			2		
Narok	702	127	18.09%	25	21	79	1	1
Nyamira	677	171	25.26%	44	41	71	15	
Nyandarua	1121	56	5.00%	18	14	17	6	1
Nyeri	1066	368	34.52%	117	74	161	8	8
Samburu	524	25	4.77%	7	2	16		
Siaya	1028	265	25.78%	92	24	146	3	
Taita Taveta	781	39	4.99%	9	11	17	2	
Tana River	254	55	21.65%	27		28		
Tharaka Nithi	1212	32	2.64%	9	6	16	1	
Trans Nzoia	1251	44	3.52%	9	4	29	2	
Turkana	451	100	22.17%	60	5	33	2	
Uasin Gishu	4123	356	8.63%	96	52	203	4	1
Vihiga	736	36	4.89%	6	5	21	2	2
Wajir	880	15	1.70%	3	7	5		
West Pokot	1057	11	1.04%	5		6		
<b>Grand Total</b>	<b>67075</b>	<b>7686</b>	<b>11.46%</b>	<b>2433</b>	<b>1033</b>	<b>3867</b>	<b>329</b>	<b>24</b>

Finally, the short term staff trainings that had been provided to staff are shown, with the form of training highlighted in table 61 below. Most of the staffs have had short trainings in Child health, PMTCT, HIV and STI prevention, Antenatal care and financial management.

**Table 60: Numbers of staff participating in different forms of Short term trainings in the past 12 months by County**

	Number of staff participating in different trainings													
	Child Health	Antenatal Care	PMTCT	Integrated vector Management	HIV and STI preventions	Non Communicable Diseases	Violence and Injuries	Medical Care	Health Leadership / Management	Human Resource Management	Financial Management	Procurement / supply management	Health Information management	Other
Baringo	10	22	29	1	8	2	5	1	6	4	4	4	4	1043
Bomet	19	24	114	8	37		1	1	12	1	14	2	6	596
Bungoma	70	24	110	25	77	3	2	22	23	3	15	4	7	1084
Busia	30	35	79	2	47			1	10	1	5	11	2	618
Elgeyo Marakwet	15	13	108	6	25	1	1	4	1	11	7	14	9	404
Embu	71	37	163	19	177	33	49	33	46	20	68	33	71	1026
Garissa	65	109	133	65	142	16	3	21	30	11	47	48	45	507
Homa Bay	95	88	198	41	169	46	25	56	35	16	30	14	50	890
Isiolo	3	1	4	3	2				6	1	2	2	1	8
Kajiado	8	6	14		10		2	12	4		7		9	444
Kakamega	58	38	196	37	139	9	22	17	23	5	22	7	16	1064
Kericho	47	44	86	33	62	41	39	64	28	13	38	29	14	907
Kiambu	57	41	190	10	106	10	4	18	14	2	94	73	22	3060
Kilifi	98	59	117	7	79	7	6	21	70	5	15	7	8	627
Kirinyaga	6	7	19		20	1				4	1		2	550
Kisii	42	46	95	30	88	12	4	15	30	2	5	9	17	378
Kisumu	68	44	106	7	129	3	3	23	17	2	1	3	21	863
Kitui	29	55	130	12	79	15	9	17	22	6	64	9	34	871
Kwale		1	1		5						2		1	563
Laikipia	18	18	21	3	23	2	7		1	2	6	1		743
Lamu														
machakos	81	98	259	19	261	32	82	11	108	9	85	39	46	1564
makueni	80	99	152	6	80	62	13	32	60	4	84	29	22	673
Mandera			1		2	1		6	8					456
marsabit	71	12	103	5	41	12	2	11	20	1	7	3	31	345
Meru	60	43	209	17	159	36	22	36	37	10	24	22	18	1727
Migori	45	40	122	26	112	4	5	13	56	49	39	15	62	723
Mombasa	71	79	200	38	222	38	7	93	28	63	54	7	42	1270
Muranga	2	4	30		13	1	1	1	1		3		1	726
Nairobi	7	10	3	11		5	1	1	5	10	8	8	17	633
Nakuru	45	48	223	18	133	6	20	23	17	9	193	214	38	2496
Nandi	13	12	166	76	59	12		2	7	2	18	3	30	690
Narok	46	40	71	25	78	8	18	4	7		3	1	4	359
Nyamira	21	26	82	41	71	8	8	27	18	3	4	4	7	500
Nyandarua	5	4	9		2	1					3			937
Nyeri	18	17	28	1	4	3	2		1				4	928
Samburu	4	3	11	1	46				3	2	5	3		234
Siaya	36	40	111	24	97	12	1	20	33	4	11	4	14	775
Taita Taveta	77	63	72	12	67	60	56	53	4		4		13	631
Tana River	12	22	33	31	27	15	12	9	9			1		155
Tharaka Nithi	10	4	34	1	13			1	1		5		4	846
Trans Nzoia	5		4	1	8	2	5				2			1225
Turkana	63	50	103		75	32	11	38	22	8	11	13	16	268
Uasi Gishu	1	1	50		20		5	2	1	9	2	11	1	949
Vihiga	29	10	38	4	32	3	4	3	3		5		4	584
Wajir	195	36	85	26	93	30	2	57	47	4	7	7	118	446
West Pokot	84	51	89		10				8		73	46	35	702
Grand Total	1890	1524	4201	692	3149	584	459	769	882	296	1097	696	866	37088

## 4.7 Health products availability

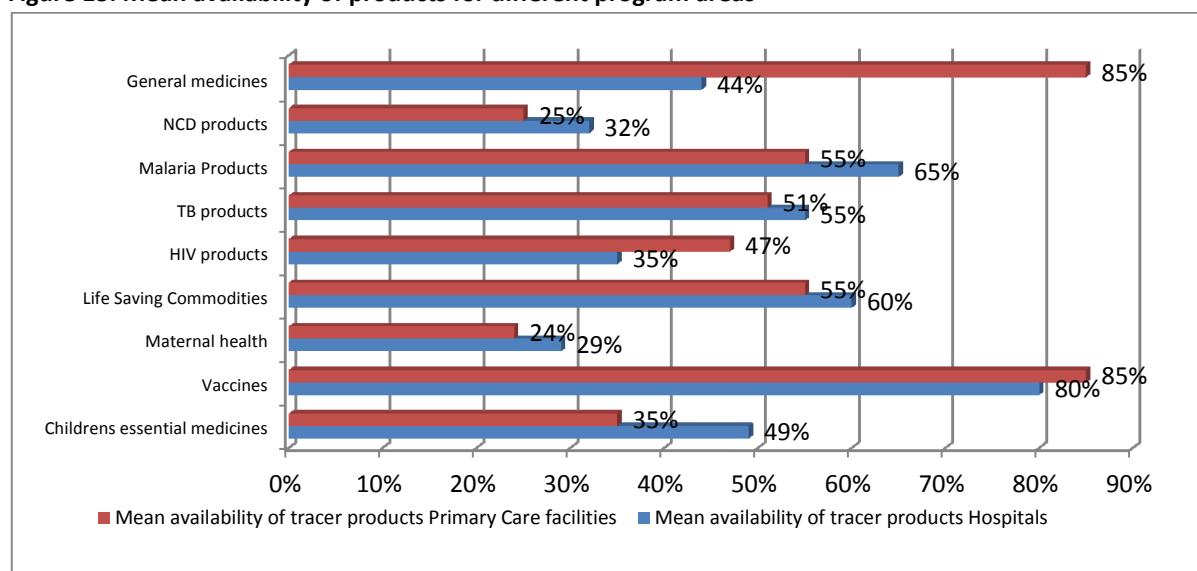
Health products are varied, and cover a wide variety of different elements. The SARAM looked at availability of a few tracer commodities for different priority outcome areas for the health sector, to assess their availability. The priority outcome areas for which the SARAM reviewed availability of tracer commodities are shown below, with the selected tracer products

**Table 61: Tracer products, and priority outcomes**

Priority areas	essential medicines for children	vaccines	essential health products for maternal health	life saving commodities	HIV products	TB products	malaria products	NCD products	general medicines
<b>Tracer commodities</b>	Amoxicillin syrup / suspension Ampicillin powder for injection Ceftriaxone powder for injection Gentamycin injectable Procaine benzyl penicillin ORS sachets Zinc tablets ACT Vitamin A capsules Morphine granule (inj / cap) Paracetamol syrup	Measles vaccine Pentavalent vaccine Oral polio vaccine BCG vaccine Tetanus toxoid vaccine PCV-10 vaccine Rotavirus vaccine Rabies vaccine Yellow fever vaccine HPV vaccine Typhoid vaccine	Oxytocin injectable Sodium Chloride injectable Calcium gluconate injectable Magnesium sulphate injectable Ampicillin powder for injection Gentamycin injectable Metronidazole injectable Misoprostol cap / tab Benzathine benzyl penicillin Beta/dexamethasone injectable Nifedipine cap / tab	Oxytocin Misoprostol Magnesium sulphate Procaine Benzylpenicillin Gentamicin Ceftriaxone Antenatal corticosteroids Skin disinfectant Amoxicillin syrup Amoxicillin 500mg cap/tab Oral rehydration salts Zinc Female condoms	ZDV ZVD Syrup NVP NVP syrup D4T + 3TC + NVP AZT + 3TC AZT + 3TC + NVP TDF + 3TC + NVP TDF + 3TC + EFV All 1 <sup>st</sup> line drugs	Streptomycin 1gm injection Isoniazid Rifampicin Isoniazid + Rifampicin Isoniazid + pyrazinamide Isoniazid + Rifampicin + Ethambutol Isoniazid + Rifampicin + pyrazinamide + Ethambutol	ACT Quinine 300gm Injectible Artemether oily injection Sulfadoxine + pyrimethamine tabs Paracetamol cap / tab ITN's Spray pumps for IRS RDT's IRS protective gear	Metformin cap / tab Insulin injection Glucose 50% (or 10%) inj Enalapril 5mg tab/cap Furosemide 40mg tabs Atenolol 50mg cap/tab Amiodipine 5mg tab Aspirin 300mg tab Beclomethasome 50mcg/dose inhaler Prednisolone cap/tab Hydrochloriazide 25mg tab Epinephrine injection	Normal saline (sodium chloride) IV solution Ringers lactate (sodium lactate) IV solution 5% dextrose IV solution 10% dextrose IV solution 50% dextrose IV solution Fluconazole Inj 2mg/ml (for fungal infections) Skin disinfectant Absorbable suture material Non-absorbable suture material Ketamine (injection) Lignocaine 1% or 2% (anaesthesia) Thiopentone 500mg or 1gm inj (powder) Suxamethonium bromide 50mg/ml inj (powder) Atropine 1mg/ml injection Diazepam 5mg/ml injection Halothane 250ml inhalation Bupivacaine spinal 0.5% spinal injection Epinephrine 1mg/ml injection Ephedrine (injection)

Mean availability of these tracer commodities is shown in the figure below.

**Figure 13: Mean availability of products for different program areas**



At the primary care facility level, health products for general services, and vaccines are the most available (85% of facilities have these), while those for NCD, maternal health and children essential medicines are the least available (25%, 24% and 35% of facilities having these, respectively).

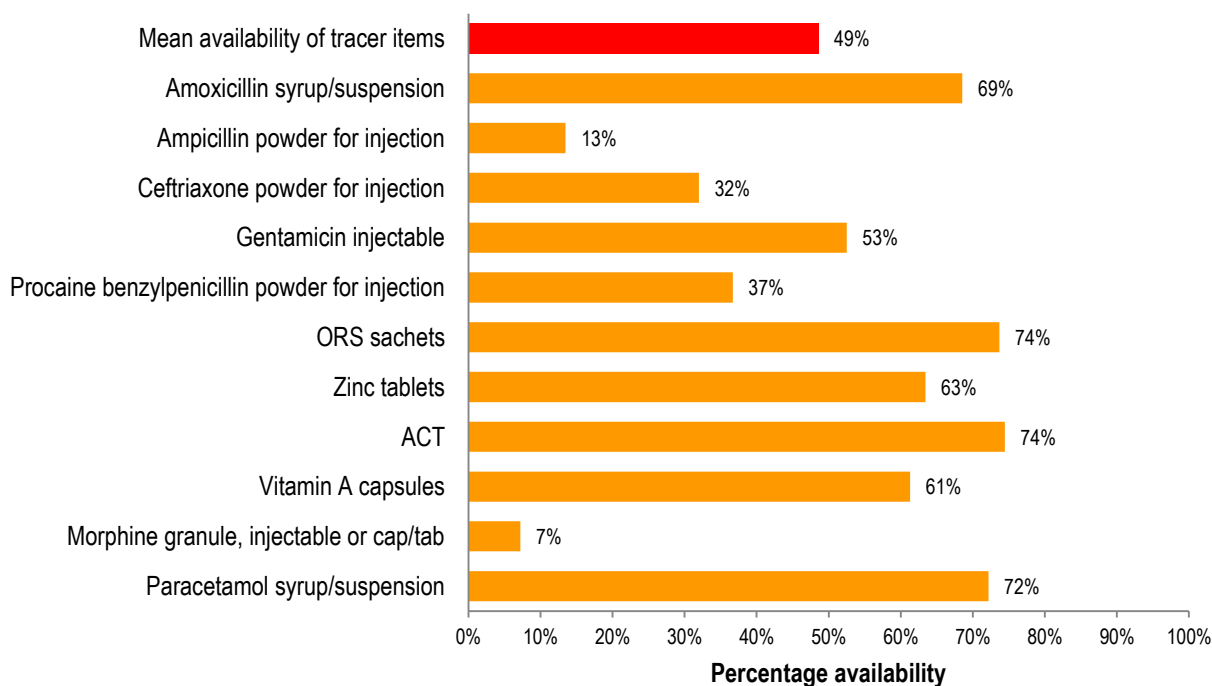
The picture is slightly different at the hospital level, with the most available products being vaccines, malaria commodities, life saving commodities and TB products (80%, 65%, 60% and 55% of facilities having these), while the least available at this level were again maternal health products, NCD products (29% and 32% respectively). The largest difference between hospitals and primary care facilities are in general medicines which are more available at the primary care level.

The following sections look at the specific availability of different commodities within each priority area – nationally and by County.

#### 4.7.1 Availability of essential medicines for children

The overall health facilities with all tracer items for essential medicines and medical services for children was 49% with 69% of the health facilities with Amoxicillin syrup/suspensions, 74% with ORS sachets, 63% with Zinc tablets, 74% with ACTs, 61% with Vitamin A capsules and 72% of the health facilities with stocked paracetamol syrups. Items that were not commonly available are Ampicillin powder for injections and Morphine granule injectable or caps/tabs. Maternity and Nursing homes had mean availability of 62%, Hospital 60% followed by health centres with 57%. This was more in private not-for profit (54%) and in rural facilities (51%). The mean availability of essential medicines for children is shown below.

**Figure 14: Percentage of facilities that have essential medicines for children observed in stock and valid (N=7396)**



The percentage of facilities having the different tracer commodities for children, by County, is shown below.

**Table 62: Percentage of facilities having the different tracer commodities for children, by County**

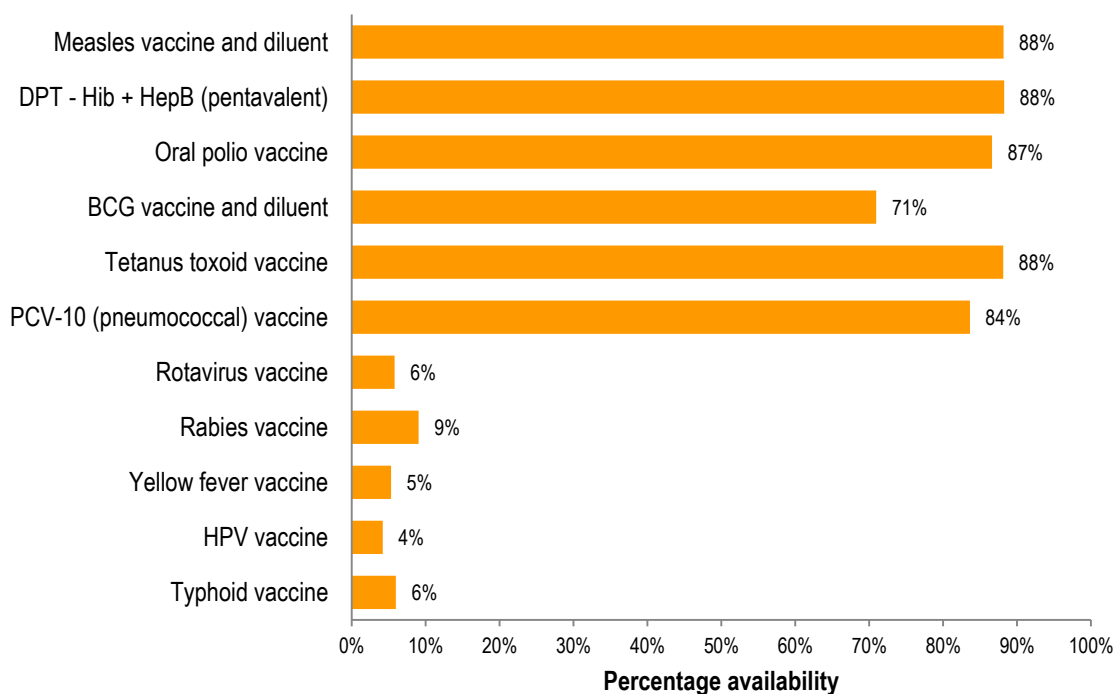
	Total number of facilities	Mean availability of tracer items	Percent of facilities with respective tracer items for children										
			Amoxicillin syrup/suspension	Ampicillin powder for injection	Ceftriaxone powder for injection	Gentamicin in injectable	Procaine benzylpenicillin powder for injection	ORS sachets	Zinc tablets	ACT	Vitamin A capsules	Morphine granule, injectable or cap/tab	Paracetamol syrup/suspension
Baringo	169	49%	79%	12%	10%	56%	31%	84%	76%	81%	65%	2%	72%
Bomet	111	55%	84%	11%	13%	33%	33%	96%	85%	97%	81%	5%	83%
Bungoma	141	49%	67%	12%	26%	56%	36%	77%	66%	81%	68%	4%	72%
Busia	80	52%	70%	12%	22%	67%	29%	84%	76%	89%	80%	4%	78%
Elgeyo-Marakwet	116	48%	82%	9%	15%	42%	26%	85%	75%	85%	46%	7%	78%
Embu	149	54%	82%	9%	33%	63%	29%	81%	74%	88%	80%	5%	79%
Garissa	129	58%	65%	29%	40%	49%	52%	85%	83%	82%	67%	10%	85%
Homa Bay	180	54%	75%	14%	27%	51%	43%	85%	78%	82%	68%	9%	80%
Isiolo	41	63%	81%	12%	24%	64%	36%	100%	95%	93%	100%	17%	93%
Kajiado	224	53%	81%	16%	47%	54%	41%	80%	63%	75%	57%	4%	81%
Kakamega	229	52%	64%	14%	28%	61%	43%	82%	64%	85%	71%	6%	80%
Kericho	174	56%	86%	10%	25%	36%	46%	87%	78%	91%	68%	18%	87%
Kiambu	346	55%	77%	18%	52%	71%	46%	78%	63%	77%	69%	11%	76%
Kilifi	199	47%	70%	13%	37%	61%	37%	69%	56%	72%	55%	5%	72%
Kirinyaga	142	42%	71%	11%	25%	44%	26%	71%	49%	61%	53%	7%	64%
Kisii	140	57%	79%	15%	26%	55%	46%	84%	74%	93%	76%	13%	89%
Kisumu	154	57%	77%	16%	44%	54%	46%	85%	75%	88%	68%	10%	86%
Kitui	313	50%	58%	7%	20%	53%	29%	81%	70%	88%	76%	7%	75%
Kwale	95	60%	93%	8%	34%	71%	52%	88%	81%	95%	77%	4%	86%
Laikipia	86	53%	77%	10%	39%	42%	32%	78%	76%	82%	77%	9%	74%
Lamu	42	55%	81%	12%	51%	70%	42%	74%	67%	84%	56%	14%	93%
Machakos	255	49%	73%	11%	34%	58%	38%	73%	65%	73%	65%	6%	75%
Makueni	184	51%	50%	11%	23%	59%	39%	82%	74%	84%	78%	6%	78%
Mandera	64	55%	70%	25%	30%	52%	45%	83%	84%	81%	61%	13%	80%
Marsabit	89	49%	57%	8%	27%	55%	19%	84%	76%	81%	72%	4%	80%
Meru	361	42%	64%	11%	31%	51%	33%	62%	50%	67%	47%	4%	65%
Migori	169	48%	46%	22%	30%	46%	41%	79%	67%	77%	57%	11%	72%
Mombasa	293	38%	53%	15%	45%	41%	39%	48%	39%	51%	34%	8%	57%
Muranga	184	60%	95%	20%	35%	72%	40%	91%	88%	84%	80%	8%	77%
Nairobi	868	34%	45%	15%	38%	38%	31%	46%	36%	44%	36%	6%	46%
Nakuru	317	53%	78%	15%	44%	62%	41%	78%	66%	74%	67%	9%	76%
Nandi	175	40%	63%	9%	17%	43%	27%	62%	53%	68%	46%	4%	59%
Narok	129	53%	76%	19%	27%	36%	42%	81%	75%	84%	70%	16%	74%
Nyamira	114	57%	86%	16%	29%	54%	42%	82%	71%	93%	73%	10%	88%
Nyandarua	116	50%	78%	9%	28%	65%	37%	87%	56%	69%	74%	4%	76%
Nyeri	245	45%	74%	11%	31%	59%	25%	68%	60%	63%	57%	6%	74%
Samburu	71	49%	75%	8%	21%	57%	30%	83%	70%	81%	69%	3%	73%
Siaya	155	55%	79%	9%	28%	56%	47%	83%	79%	87%	72%	6%	85%
Taita Taveta	81	50%	79%	10%	26%	56%	31%	75%	72%	78%	68%	7%	73%
Tana River	49	48%	53%	10%	31%	61%	31%	67%	63%	76%	71%	14%	71%
Tharaka Nithi	116	55%	87%	10%	21%	70%	46%	85%	72%	86%	70%	3%	84%
Trans-Nzoia	137	35%	50%	9%	26%	44%	22%	57%	33%	57%	47%	6%	55%
Turkana	136	54%	82%	20%	32%	62%	27%	82%	77%	82%	67%	10%	72%
Uasin Gishu	146	50%	72%	22%	31%	40%	34%	72%	65%	74%	65%	14%	69%
Vihiga	87	58%	82%	17%	37%	69%	48%	84%	69%	85%	78%	6%	89%
Wajir	110	52%	44%	12%	32%	42%	40%	85%	85%	90%	71%	11%	84%
West Pokot	84	49%	70%	5%	24%	49%	52%	75%	67%	80%	64%	3%	73%
Facility type													
Hospital	607	60%	80%	24%	58%	74%	43%	79%	74%	79%	67%	26%	82%
Health centre	1064	57%	75%	13%	27%	65%	40%	89%	79%	87%	82%	7%	83%
Dispensary	3676	51%	73%	8%	17%	49%	32%	84%	77%	84%	75%	5%	77%
Medical clinic/Stand-alone VCT	2346	37%	54%	16%	46%	45%	38%	50%	34%	53%	31%	5%	57%
Maternity/Nursing home	301	62%	79%	41%	72%	76%	60%	76%	63%	77%	63%	12%	80%
Managing authority													
Public	3978	52%	73%	7%	13%	51%	29%	87%	81%	87%	78%	6%	80%
Private, not-for-profit	1327	54%	74%	18%	53%	61%	46%	76%	62%	74%	65%	10%	75%
Private, for-profit	2538	42%	60%	21%	50%	51%	44%	55%	40%	57%	36%	7%	61%
Others	152	35%	47%	10%	34%	39%	32%	49%	37%	53%	39%	7%	50%
Urban/Rural													
Urban	2450	43%	59%	19%	48%	50%	38%	57%	47%	59%	43%	9%	61%
Rural	4946	51%	74%	11%	24%	54%	36%	82%	72%	82%	71%	6%	78%
Total	7396	49%	69%	13%	32%	53%	37%	74%	63%	74%	61%	7%	72%

#### 4.7.2 Availability of vaccines

The proportion of Health facilities immunising was 63% of the total health facilities surveyed and overall, 88% of the health facilities visited had Measles and Pentavalent vaccines stocked and observed leaving 12% difference. BCG vaccine and diluents was least observed in 71% of the total health facilities giving a significant difference of 29% of the total expected health facilities without. HPV, typhoid, yellow fever, Rotavirus and rabies vaccines are not much widely used and only 4%, 6%, 5%, 6% and 9% of the total health facilities identified as potentially giving the vaccination. Primary care facilities were observed to have 80- 90% and hospitals 75% immunising with Public offering in 88% of the existing health facilities followed by private not-for-profit 65% and only in 29% of the private for-profit facilities.

The mean availability of vaccines is shown in the figure below;

**Figure 15: Percentage of facilities that have vaccines observed in stock and valid (N=7396)**



The percentage of facilities having the different vaccines, by County, is shown in the proceeding table.



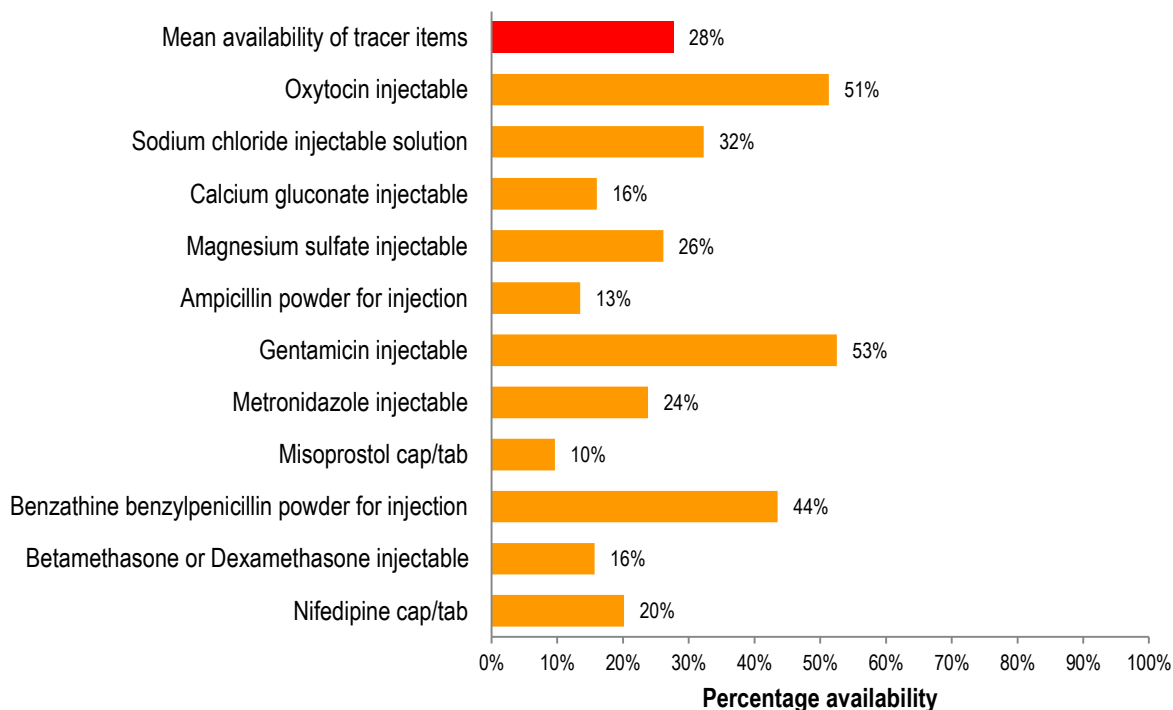
**Table 63: Percentage of facilities having the different vaccines by County**

County	Total number of facilities	Mean availability of tracer items	Percent of facilities with respective tracer items for immunisation										
			Measles vaccine and diluent	DPT - Hib + HepB (pentavalent)	Oral polio vaccine	BCG vaccine and diluent	Tetanus toxoid vaccine	PCV-10 (pneumococcal) vaccine	Rotaviruses vaccine	Rabies vaccine	Yellow fever vaccine	HPV vaccine	Typhoid vaccine
Baringo	169	49%	65%	65%	63%	58%	65%	63%	3%	5%	41%	1%	1%
Bomet	111	55%	92%	93%	81%	29%	83%	83%	1%	4%	2%	3%	5%
Bungoma	141	49%	69%	70%	68%	46%	70%	66%	3%	5%	2%	2%	9%
Busia	80	52%	77%	77%	73%	60%	77%	71%	2%	7%	4%	2%	4%
Elgeyo-Marakwet	116	48%	66%	65%	64%	63%	66%	63%	2%	6%	51%	1%	1%
Embu	149	54%	63%	64%	63%	60%	71%	64%	3%	5%	1%	1%	7%
Garissa	129	58%	53%	52%	53%	37%	62%	51%	6%	7%	2%	8%	11%
Homa Bay	180	54%	79%	79%	78%	46%	77%	74%	5%	7%	3%	3%	5%
Isiolo	41	63%	90%	93%	93%	81%	90%	83%	2%	10%	2%	2%	2%
Kajiado	224	53%	53%	53%	53%	54%	69%	51%	8%	15%	3%	5%	8%
Kakamega	229	52%	62%	62%	61%	37%	66%	60%	3%	9%	2%	2%	6%
Kericho	174	56%	84%	82%	77%	44%	85%	79%	5%	7%	2%	4%	4%
Kiambu	346	55%	56%	56%	56%	50%	68%	55%	7%	8%	3%	5%	6%
Kilifi	199	47%	48%	48%	49%	42%	60%	47%	0%	4%	1%	3%	2%
Kirinyaga	142	42%	42%	43%	43%	30%	55%	41%	3%	5%	1%	2%	6%
Kisii	140	57%	80%	81%	79%	62%	78%	72%	10%	9%	4%	6%	9%
Kisumu	154	57%	75%	75%	74%	72%	77%	70%	10%	15%	8%	6%	11%
Kitui	313	50%	54%	53%	52%	44%	59%	49%	1%	5%	1%	1%	1%
Kwale	95	60%	72%	72%	69%	69%	83%	68%	1%	6%	3%	1%	2%
Laikipia	86	53%	66%	67%	66%	63%	78%	61%	3%	8%	1%	1%	9%
Lamu	42	55%	53%	58%	58%	53%	67%	56%	7%	7%	2%	0%	2%
Machakos	255	49%	58%	59%	57%	50%	66%	57%	2%	8%	1%	2%	3%
Makueni	184	51%	73%	73%	72%	55%	78%	72%	1%	6%	1%	1%	1%
Mandera	64	55%	52%	49%	48%	43%	48%	48%	12%	9%	3%	6%	3%
Marsabit	89	49%	63%	61%	63%	52%	68%	62%	3%	17%	1%	2%	2%
Meru	361	42%	39%	39%	38%	32%	48%	36%	2%	5%	0%	0%	2%
Migori	169	48%	72%	72%	71%	63%	74%	69%	8%	9%	4%	6%	6%
Mombasa	293	38%	25%	25%	25%	23%	39%	24%	4%	3%	2%	3%	3%
Muranga	184	60%	68%	69%	68%	62%	75%	63%	3%	5%	3%	5%	5%
Nairobi	868	34%	32%	32%	32%	30%	39%	31%	9%	9%	4%	6%	8%
Nakuru	317	53%	65%	66%	66%	54%	72%	62%	5%	10%	1%	3%	4%
Nandi	175	40%	52%	51%	52%	49%	51%	47%	2%	2%	0%	0%	1%
Narok	129	53%	70%	70%	69%	62%	61%	58%	1%	7%	1%	1%	4%
Nyamira	114	57%	80%	81%	78%	46%	79%	71%	4%	2%	1%	3%	3%
Nyandarua	116	50%	62%	62%	62%	57%	69%	61%	3%	8%	0%	7%	5%
Nyeri	245	45%	45%	45%	44%	33%	55%	43%	2%	3%	1%	2%	3%
Samburu	71	49%	51%	51%	43%	44%	57%	52%	1%	10%	3%	3%	1%
Siaya	155	55%	78%	79%	77%	56%	80%	69%	2%	6%	1%	1%	4%
Taita Taveta	81	50%	69%	68%	67%	67%	74%	67%	1%	9%	1%	1%	1%
Tana River	49	48%	71%	73%	73%	73%	73%	73%	0%	4%	0%	0%	0%
Tharaka Nithi	116	55%	51%	51%	50%	38%	57%	50%	3%	8%	2%	2%	3%
Trans-Nzoia	137	35%	52%	52%	51%	34%	54%	50%	1%	4%	1%	1%	1%
Turkana	136	54%	56%	56%	57%	53%	61%	50%	3%	6%	4%	2%	4%
Uasin Gishu	146	50%	66%	66%	66%	45%	66%	65%	5%	5%	3%	3%	3%
Vihiga	87	58%	68%	67%	66%	45%	68%	66%	3%	9%	0%	1%	9%
Wajir	110	52%	50%	50%	51%	43%	68%	46%	3%	9%	1%	4%	2%
West Pokot	84	49%	60%	57%	53%	38%	57%	54%	1%	6%	0%	0%	1%
Facility type													
Hospital	607		91%	91%	91%	76%	93%	88%	17%	28%	12%	16%	17%
Health centre	1064		94%	94%	93%	77%	94%	90%	5%	7%	5%	4%	8%
Dispensary	3676		88%	88%	86%	70%	87%	84%	3%	4%	4%	2%	3%
Medical clinic/ Stand-alone VCT	2346		76%	77%	76%	63%	80%	72%	11%	17%	6%	8%	9%
Maternity/ Nursing home	301		86%	87%	86%	70%	88%	82%	10%	26%	5%	5%	8%
Managing authority													
Public	3978		91%	91%	89%	72%	90%	86%	3%	4%	5%	3%	4%
Private, not-for-profit	1327		86%	87%	86%	70%	87%	80%	7%	16%	6%	6%	7%
Private, for-profit	2538		80%	80%	79%	66%	83%	75%	15%	22%	7%	9%	11%
Others	152		82%	79%	81%	67%	81%	73%	16%	18%	13%	15%	16%
Urban/Rural													
Urban	2450		85%	86%	85%	74%	88%	81%	15%	20%	9%	11%	14%
Rural	4946		89%	89%	87%	70%	88%	84%	3%	6%	4%	2%	4%
Total	7396		88%	88%	87%	71%	88%	84%	6%	9%	5%	4%	6%

### 4.7.3 Availability of maternal health products

The overall availability of tracer items of essential medicines for mothers was 28% with 51% of Oxytocin injectables, 26% magnesium sulphate injectables and 53% of gentamicin injectables. The essential products that were least stocked in health facilities were Ampicillin powder for injectable, Misoprostol Capsules or tablets and Calcium gluconate injectable. The mean availability of essential health products for maternal health is shown in the figure below

**Figure 16: Percentage of facilities that have essential medicines for mothers observed in stock and valid (N=7396)**



The percentage of facilities having the different maternal health tracer commodities, by County, is shown in the preceding table.

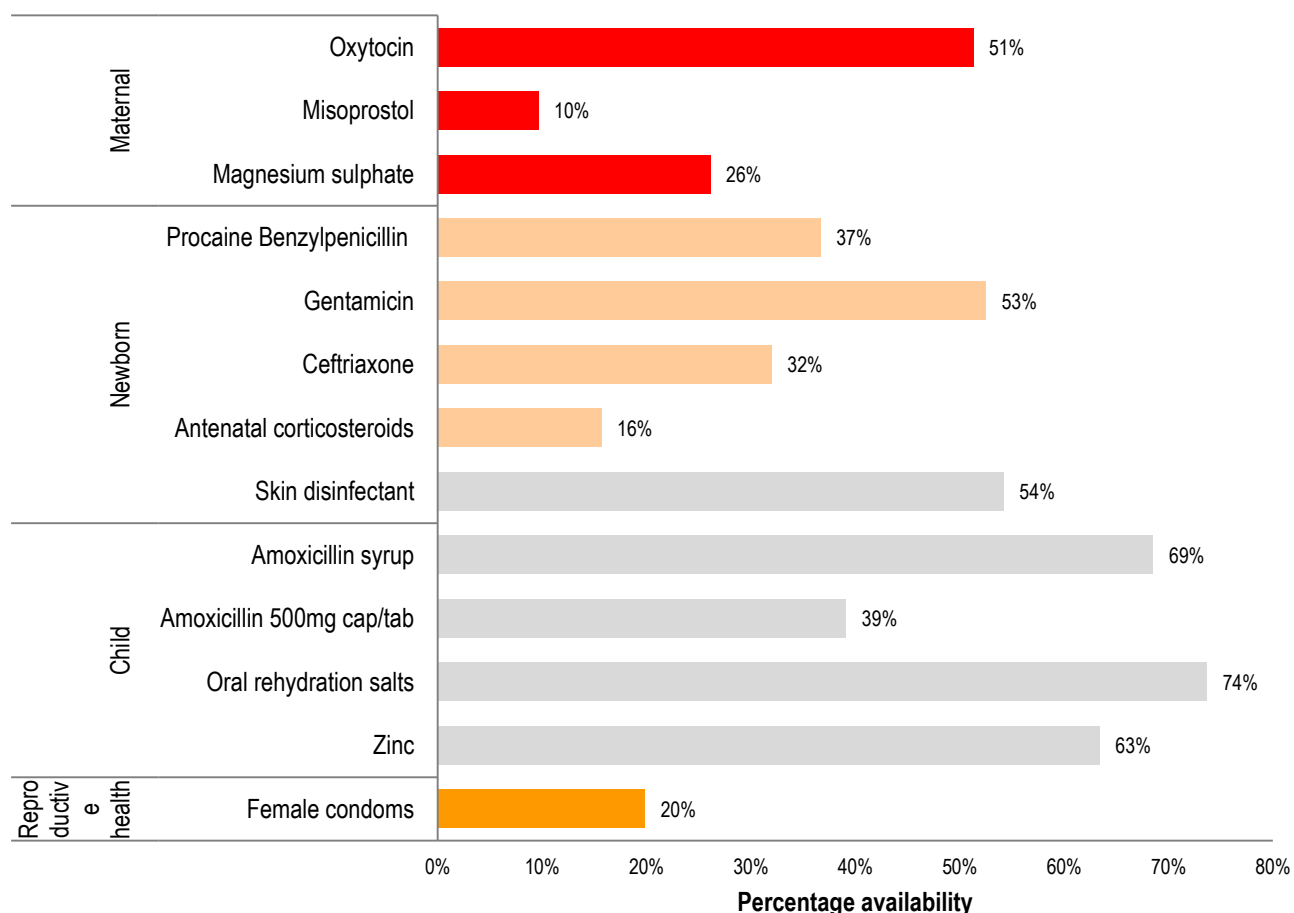
**Table 64: Percentage of facilities having the different maternal health tracer commodities, by County**

County	Total number of facilities	Mean availability of tracer items	Percent of facilities with respective tracer items for maternal health										
			Oxytocin injectable	Sodium chloride injectable solution	Calcium gluconate injectable	Magnesium sulfate injectable	Ampicillin powder for injection	Gentamicin injectable	Metronidazole injectable	Misoprostol cap/tab	Benzathine benzylpenicillin powder for injection	Betamethasone or Dexamethasone injectable	Nifedipine cap/tab
Baringo	169	20%	52%	24%	14%	19%	12%	56%	13%	1%	23%	4%	5%
Bomet	111	20%	73%	21%	8%	15%	11%	33%	11%	3%	34%	3%	4%
Bungoma	141	29%	66%	37%	15%	40%	12%	56%	23%	5%	32%	12%	17%
Busia	80	31%	75%	46%	18%	48%	12%	67%	20%	6%	24%	8%	14%
Elgeyo-Marakwet	116	18%	54%	27%	10%	17%	9%	42%	11%	2%	19%	5%	7%
Embu	149	26%	41%	36%	9%	31%	9%	63%	14%	5%	43%	10%	23%
Garissa	129	33%	53%	37%	20%	32%	29%	49%	44%	14%	46%	21%	21%
Homa Bay	180	32%	74%	42%	16%	38%	14%	51%	23%	6%	58%	15%	13%
Isiolo	41	36%	74%	55%	38%	57%	12%	64%	26%	14%	31%	7%	14%
Kajiado	224	31%	55%	36%	13%	17%	16%	54%	37%	11%	46%	25%	33%
Kakamega	229	30%	68%	34%	25%	35%	14%	61%	28%	12%	37%	11%	11%
Kericho	174	25%	75%	26%	16%	20%	10%	36%	15%	9%	41%	14%	13%
Kiambu	346	36%	52%	34%	22%	28%	18%	71%	27%	15%	59%	27%	38%
Kilifi	199	28%	52%	31%	16%	25%	13%	61%	26%	8%	39%	15%	19%
Kirinyaga	142	23%	33%	30%	11%	23%	11%	44%	13%	9%	48%	8%	19%
Kisii	140	32%	69%	44%	16%	34%	15%	55%	26%	11%	50%	16%	20%
Kisumu	154	38%	68%	50%	26%	46%	16%	54%	37%	16%	63%	25%	23%
Kitui	313	23%	57%	30%	7%	14%	7%	53%	18%	4%	47%	9%	13%
Kwale	95	35%	78%	51%	15%	43%	8%	71%	21%	4%	71%	13%	9%
Laikipia	86	32%	73%	43%	33%	34%	10%	42%	23%	8%	45%	22%	23%
Lamu	42	35%	60%	47%	14%	21%	12%	70%	35%	9%	63%	19%	35%
Machakos	255	29%	48%	37%	10%	22%	11%	58%	24%	7%	62%	13%	22%
Makueni	184	29%	64%	41%	14%	27%	11%	59%	21%	7%	40%	15%	18%
Mandera	64	34%	52%	32%	13%	36%	25%	52%	48%	13%	48%	22%	29%
Marsabit	89	28%	57%	35%	14%	40%	8%	55%	26%	9%	38%	14%	17%
Meru	361	21%	28%	19%	7%	15%	11%	51%	14%	10%	42%	15%	23%
Migori	169	32%	71%	34%	25%	43%	22%	46%	29%	10%	32%	21%	16%
Mombasa	293	24%	29%	24%	13%	13%	15%	41%	29%	18%	33%	20%	25%
Muranga	184	39%	66%	52%	24%	41%	20%	72%	21%	11%	71%	15%	35%
Nairobi	868	23%	26%	20%	16%	15%	15%	38%	27%	13%	37%	22%	26%
Nakuru	317	32%	56%	31%	18%	27%	15%	62%	23%	16%	59%	15%	28%
Nandi	175	23%	47%	24%	19%	33%	9%	43%	15%	2%	42%	7%	8%
Narok	129	27%	70%	34%	16%	18%	19%	36%	24%	10%	33%	18%	16%
Nyamira	114	29%	76%	38%	18%	28%	16%	54%	25%	9%	36%	11%	11%
Nyandarua	116	32%	68%	41%	22%	38%	9%	65%	16%	8%	43%	16%	25%
Nyeri	245	24%	31%	27%	8%	19%	11%	59%	13%	7%	48%	16%	25%
Samburu	71	24%	49%	31%	14%	32%	8%	57%	16%	3%	31%	16%	12%
Siaya	155	35%	75%	42%	26%	49%	9%	56%	27%	10%	63%	14%	15%
Taita Taveta	81	29%	65%	36%	12%	27%	10%	56%	16%	5%	58%	11%	17%
Tana River	49	22%	33%	20%	2%	41%	10%	61%	33%	2%	37%	4%	4%
Tharaka Nithi	116	28%	40%	26%	14%	29%	10%	70%	23%	3%	61%	12%	21%
Trans-Nzoia	137	21%	38%	32%	12%	17%	9%	44%	21%	10%	27%	11%	13%
Turkana	136	29%	43%	42%	39%	29%	20%	62%	31%	4%	33%	10%	6%
Uasin Gishu	146	26%	52%	34%	21%	22%	22%	40%	29%	16%	25%	13%	18%
Vihiga	87	37%	61%	44%	25%	48%	17%	69%	29%	21%	52%	20%	20%
Wajir	110	28%	53%	35%	11%	27%	12%	42%	40%	10%	34%	20%	29%
West Pokot	84	24%	41%	34%	17%	30%	5%	49%	27%	3%	34%	13%	8%
<b>Facility type</b>													
Hospital	607	52%	71%	62%	42%	59%	24%	74%	65%	30%	59%	42%	45%
Health centre	1064	36%	77%	50%	24%	47%	13%	65%	27%	9%	50%	14%	19%
Dispensary	3676	23%	57%	31%	12%	26%	8%	49%	12%	3%	41%	7%	9%
Medical clinic/ Stand-alone VCT	2346	22%	25%	18%	9%	9%	16%	45%	26%	12%	39%	19%	26%
Maternity/ Nursing home	301	55%	72%	50%	36%	41%	41%	76%	64%	41%	68%	56%	59%
<b>Managing authority</b>													
Public	3978	26%	67%	38%	16%	35%	7%	51%	14%	4%	40%	6%	7%
Private, not-for-profit	1327	33%	47%	33%	20%	24%	18%	61%	36%	14%	55%	25%	36%
Private, for-profit	2538	28%	31%	23%	15%	14%	21%	51%	32%	17%	44%	26%	32%
Others	152	22%	32%	26%	14%	17%	10%	39%	20%	7%	38%	14%	22%
<b>Urban/Rural</b>													
Urban	2450	29%	35%	28%	18%	20%	19%	50%	34%	17%	43%	26%	30%
Rural	4946	27%	60%	34%	15%	29%	11%	54%	19%	6%	44%	11%	15%
<b>Total</b>	<b>7396</b>	<b>28%</b>	<b>51%</b>	<b>32%</b>	<b>16%</b>	<b>26%</b>	<b>13%</b>	<b>53%</b>	<b>24%</b>	<b>10%</b>	<b>44%</b>	<b>16%</b>	<b>20%</b>

#### 4.7.4 Availability of life saving commodities

On lifesaving, 51% of the Health facilities had stocked lifesaving commodities of Oxytocin, 26% magnesium sulphate, 53% gentamicin, 69% amoxicillin syrup, 74% Oral rehydration salts, 63% Zinc and 20% female condoms. The items least available was Misoprostol (10%) and antenatal corticosteroids (16%). Public Health facilities were well stocked with lifesaving commodities than Private not-for profit and Private for-profit. Most items were also in rural areas than urban. The mean availability of life saving commodities is shown in the figure below;

**Figure 17: Percentage of facilities that have lifesaving commodities observed in stock and valid (N=7396)**



The percentage of facilities having the different life saving commodities, by County, is shown in the preceding table.

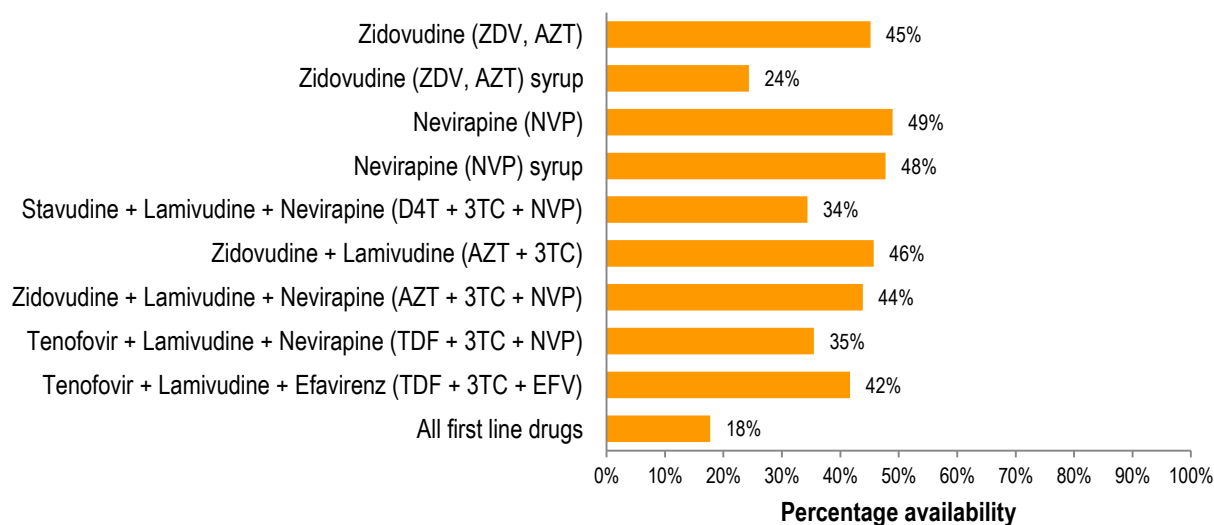
**Table 65: Percentage of facilities having the different life saving commodities, by County**

County	Total number of facilities	Oxytocin	Misoprostol	Magnesium sulphate	Procaine Benzylpenicillin	Gentamicin	Ceftriaxone	Antenatal corticosteroids	Skin disinfectant	Amoxicillin syrup	Amoxicillin 500mg cap/tab	Oral rehydration salts	Zinc	Female condoms	Injectable antibiotics (all three)
Baringo	169	52%	1%	19%	31%	56%	10%	4%	49%	79%	44%	84%	76%	9%	6%
Bomet	111	73%	3%	15%	33%	33%	13%	3%	70%	84%	47%	96%	85%	16%	3%
Bungoma	141	66%	5%	40%	36%	56%	26%	12%	58%	67%	31%	77%	66%	22%	14%
Busia	80	75%	6%	48%	29%	67%	22%	8%	59%	70%	28%	84%	76%	18%	13%
Elgeyo-Marakwet	116	54%	2%	17%	26%	42%	15%	5%	52%	82%	38%	85%	75%	11%	5%
Embu	149	41%	5%	31%	29%	63%	33%	10%	54%	82%	42%	81%	74%	15%	11%
Garissa	129	53%	14%	32%	52%	49%	40%	21%	48%	65%	45%	85%	83%	17%	29%
Homa Bay	180	74%	6%	38%	43%	51%	27%	15%	55%	75%	53%	85%	78%	31%	13%
Isiolo	41	74%	14%	57%	36%	64%	24%	7%	67%	81%	40%	100%	95%	26%	10%
Kajiado	224	55%	11%	17%	41%	54%	47%	25%	69%	81%	42%	80%	63%	18%	24%
Kakamega	229	68%	12%	35%	43%	61%	28%	11%	59%	64%	36%	82%	64%	21%	17%
Kericho	174	75%	9%	20%	46%	36%	25%	14%	61%	86%	47%	87%	78%	25%	11%
Kiambu	346	52%	15%	28%	46%	71%	52%	27%	63%	77%	42%	78%	63%	32%	28%
Kilifi	199	52%	8%	25%	37%	61%	37%	15%	52%	70%	44%	69%	56%	23%	20%
Kirinyaga	142	33%	9%	23%	26%	44%	25%	8%	50%	71%	32%	71%	49%	32%	8%
Kisii	140	69%	11%	34%	46%	55%	26%	16%	61%	79%	48%	84%	74%	30%	12%
Kisumu	154	68%	16%	46%	46%	54%	44%	25%	64%	77%	48%	85%	75%	36%	24%
Kitui	313	57%	4%	14%	29%	53%	20%	9%	47%	58%	47%	81%	70%	16%	9%
Kwale	95	78%	4%	43%	52%	71%	34%	13%	59%	93%	47%	88%	81%	20%	21%
Laikipia	86	73%	8%	34%	32%	42%	39%	22%	76%	77%	37%	78%	76%	23%	17%
Lamu	42	60%	9%	21%	42%	70%	51%	19%	63%	81%	30%	74%	67%	19%	26%
Machakos	255	48%	7%	22%	38%	58%	34%	13%	51%	73%	40%	73%	65%	13%	16%
Makueni	184	64%	7%	27%	39%	59%	23%	15%	54%	50%	45%	82%	74%	23%	12%
Mandera	64	52%	13%	36%	45%	52%	30%	22%	58%	70%	38%	83%	84%	10%	22%
Marsabit	89	57%	9%	40%	19%	55%	27%	14%	62%	57%	39%	84%	76%	6%	13%
Meru	361	28%	10%	15%	33%	51%	31%	15%	45%	64%	29%	62%	50%	14%	16%
Migori	169	71%	10%	43%	41%	46%	30%	21%	57%	46%	53%	79%	67%	28%	18%
Mombasa	293	29%	18%	13%	39%	41%	45%	20%	42%	53%	33%	48%	39%	20%	25%
Muranga	184	66%	11%	41%	40%	72%	35%	15%	84%	95%	40%	91%	88%	26%	18%
Nairobi	868	26%	13%	15%	31%	38%	38%	22%	38%	45%	26%	46%	36%	21%	21%
Nakuru	317	56%	16%	27%	41%	62%	44%	21%	61%	78%	40%	78%	66%	27%	22%
Nandi	175	47%	2%	33%	27%	43%	17%	7%	52%	63%	31%	62%	53%	9%	9%
Narok	129	70%	10%	18%	42%	36%	27%	18%	62%	76%	50%	81%	75%	19%	18%
Nyamira	114	76%	9%	28%	42%	54%	29%	11%	67%	86%	62%	82%	71%	28%	9%
Nyandarua	116	68%	8%	38%	37%	65%	28%	16%	65%	78%	38%	87%	56%	20%	11%
Nyeri	245	31%	7%	19%	25%	59%	31%	16%	64%	74%	29%	68%	60%	15%	10%
Samburu	71	49%	3%	32%	30%	57%	21%	16%	61%	75%	27%	83%	70%	9%	12%
Siaya	155	75%	10%	49%	47%	56%	28%	14%	65%	79%	53%	83%	79%	19%	17%
Taita Taveta	81	65%	5%	27%	31%	56%	26%	11%	56%	79%	44%	75%	72%	16%	11%
Tana River	49	33%	2%	41%	31%	61%	31%	4%	45%	53%	61%	67%	63%	20%	20%
Tharaka Nithi	116	40%	3%	29%	46%	70%	21%	12%	53%	87%	44%	85%	72%	21%	11%
Trans-Nzoia	137	38%	10%	17%	22%	44%	26%	11%	45%	50%	37%	57%	33%	13%	14%
Turkana	136	43%	4%	29%	27%	62%	32%	10%	34%	82%	39%	82%	77%	9%	12%
Uasin Gishu	146	52%	16%	22%	34%	40%	31%	13%	53%	72%	39%	72%	65%	15%	18%
Vihiga	87	61%	21%	48%	48%	69%	37%	20%	64%	82%	51%	84%	69%	23%	22%
Wajir	110	53%	10%	27%	40%	42%	32%	20%	55%	44%	30%	85%	85%	11%	19%
West Pokot	84	41%	3%	30%	52%	49%	24%	13%	40%	70%	43%	75%	67%	14%	17%
<b>Facility type</b>															
Hospital	607	71%	30%	59%	43%	74%	58%	42%	67%	80%	48%	79%	74%	36%	29%
Health centre	1064	77%	9%	47%	40%	65%	27%	14%	66%	75%	46%	89%	79%	24%	16%
Dispensary	3676	57%	3%	26%	32%	49%	17%	7%	56%	73%	41%	84%	77%	17%	7%
Medical clinic/ Stand-alone VCT	2346	25%	12%	9%	38%	45%	46%	19%	42%	54%	30%	50%	34%	17%	25%
Maternity/ Nursing home	301	72%	41%	41%	60%	76%	72%	56%	69%	79%	46%	76%	63%	32%	49%
<b>Managing authority</b>															
Public	3978	67%	4%	35%	29%	51%	13%	6%	58%	73%	47%	87%	81%	20%	4%
Private, not-for-profit	1327	47%	14%	24%	46%	61%	53%	25%	60%	74%	30%	76%	62%	20%	27%
Private, for-profit	2538	31%	17%	14%	44%	51%	50%	26%	47%	60%	33%	55%	40%	19%	30%
Others	152	32%	7%	17%	32%	39%	34%	14%	38%	47%	32%	49%	37%	24%	16%
<b>Urban</b>															
Urban	2450	35%	17%	20%	38%	50%	48%	26%	47%	59%	33%	57%	47%	22%	26%
Rural	4946	60%	6%	29%	36%	54%	24%	11%	58%	74%	42%	82%	72%	19%	12%
<b>Total</b>	<b>7396</b>	<b>51%</b>	<b>10%</b>	<b>26%</b>	<b>37%</b>	<b>53%</b>	<b>32%</b>	<b>16%</b>	<b>54%</b>	<b>69%</b>	<b>39%</b>	<b>74%</b>	<b>63%</b>	<b>20%</b>	<b>17%</b>

#### 4.7.5 Availability of HIV products

A total of 1,991 health facilities reported offering HIV services country wide. The proportion of health facilities with all first line ARV drugs was 18% of all facilities offering HIV related services. 49% of the health facilities stocked Nevirapine, a combination of Zidovudine + Lamivudine (AZT + 3TC) was in 46% of the facilities, and a combination of Zidovudine (ZDV, AZT) was stocked in 45% of the institutions. Public health facilities are well stocked to provide ARVs, followed by the private not-for-profit. The products were available in Hospitals, a few health centres and nursing homes with 24% of the hospitals and 23% of health centres with all first line drugs. The mean availability of HIV commodities is shown in the figure 18 below;

**Figure 18: Percentage of facilities that have HIV commodities observed in stock and valid (N=1991)**



The percentage of facilities having the different HIV tracer commodities, by County, is shown in table 67 below.

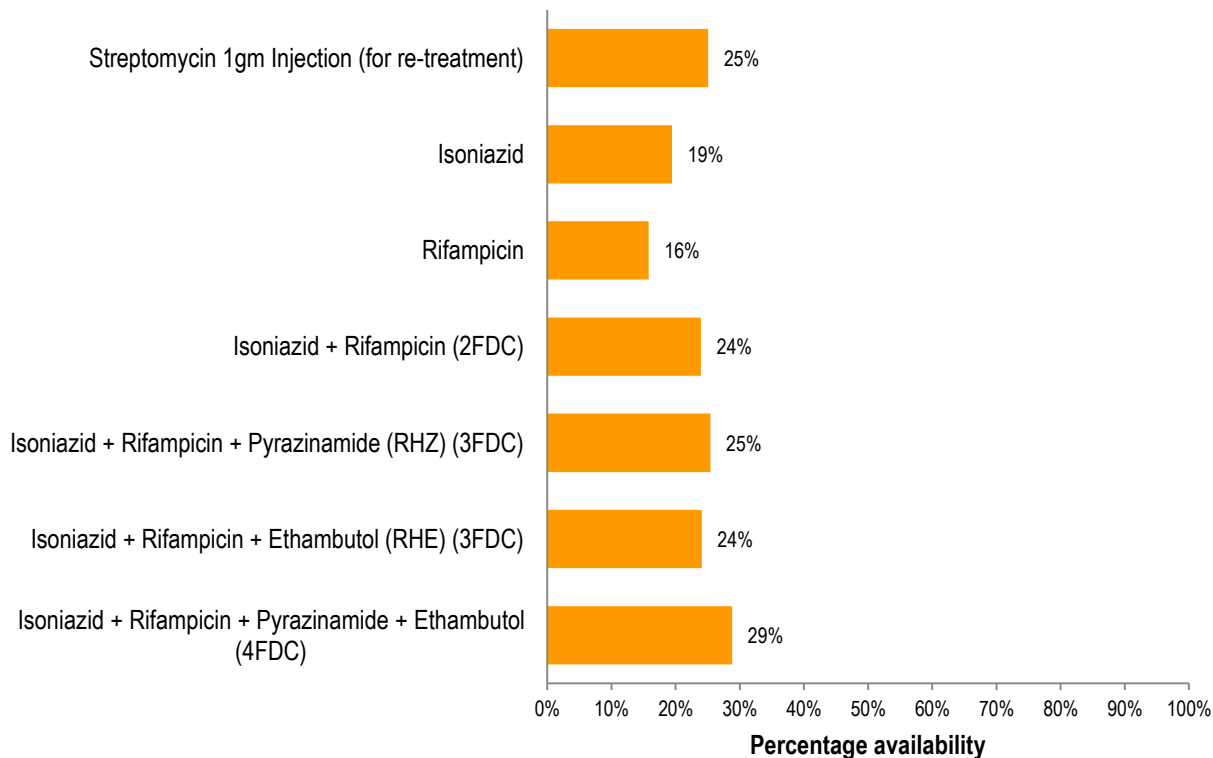
**Table 66: Percentage of facilities having the different HIV tracer commodities, by County**

County	Total number of hospitals, health centres, and maternity/nursing homes	Zidovudine (ZDV, AZT)	Zidovudine (ZDV, AZT) + Nevirapine (NVP)	Nevirapine (NVP)	Nevirapine (NVP) + Stavudine + Lamivudine + Nevirapine (D4T + 3TC + NVP)	Zidovudine + Lamivudine (AZT + 3TC)	Zidovudine + Lamivudine + Nevirapine (AZT + 3TC + NVP)	Tenofovir + Lamivudine + Nevirapine (TDF + 3TC + NVP)	Tenofovir + Lamivudine + Efavirenz (TDF + 3TC + EFV)	All first line drugs	
Baringo	29	38%	31%	45%	48%	31%	45%	38%	24%	34%	21%
Bomet	19	79%	16%	95%	95%	68%	89%	95%	79%	89%	11%
Bungoma	36	72%	31%	83%	81%	42%	69%	67%	44%	61%	17%
Busia	25	64%	52%	72%	76%	52%	72%	72%	56%	76%	40%
Elgeyo-Marakwet	29	31%	28%	52%	52%	17%	38%	41%	24%	24%	17%
Embu	22	73%	23%	68%	73%	18%	73%	64%	41%	64%	23%
Garissa	38	34%	11%	34%	21%	21%	34%	24%	11%	13%	5%
Homa Bay	59	80%	44%	83%	83%	64%	78%	81%	69%	80%	41%
Isiolo	10	60%	50%	60%	50%	50%	70%	50%	30%	30%	40%
Kajiado	77	38%	23%	42%	39%	17%	34%	32%	25%	30%	12%
Kakamega	67	76%	33%	76%	72%	60%	73%	69%	54%	58%	30%
Kericho	25	68%	48%	76%	72%	56%	72%	72%	56%	64%	40%
Kiambu	123	39%	24%	42%	41%	28%	39%	36%	28%	34%	17%
Kilifi	30	67%	23%	77%	73%	57%	70%	67%	60%	67%	20%
Kirinyaga	42	36%	19%	40%	40%	33%	38%	40%	29%	38%	17%
Kisii	55	80%	45%	84%	75%	71%	80%	75%	60%	65%	29%
Kisumu	64	59%	33%	69%	66%	56%	66%	66%	55%	66%	27%
Kitui	56	68%	39%	73%	71%	46%	66%	70%	57%	64%	25%
Kwale	16	75%	19%	75%	75%	38%	75%	75%	50%	75%	19%
Laikipia	16	56%	19%	63%	63%	25%	69%	56%	44%	50%	19%
Lamu	9	67%	11%	56%	78%	33%	56%	56%	33%	56%	11%
Machakos	44	86%	36%	84%	86%	68%	77%	77%	70%	80%	30%
Makueni	42	74%	40%	81%	81%	50%	79%	74%	57%	67%	38%
Mandera	29	24%	17%	21%	28%	14%	24%	10%	7%	7%	3%
Marsabit	25	40%	32%	60%	52%	32%	48%	48%	4%	24%	8%
Meru	66	42%	14%	52%	53%	26%	52%	42%	29%	36%	11%
Migori	50	68%	38%	68%	68%	56%	70%	64%	54%	58%	28%
Mombasa	50	44%	26%	42%	46%	34%	42%	36%	30%	32%	20%
Muranga	184	43%	0%	42%	45%	24%	37%	29%	19%	19%	15%
Nairobi	229	34%	20%	34%	34%	25%	31%	29%	24%	27%	14%
Nakuru	80	56%	20%	56%	55%	44%	51%	51%	41%	48%	16%
Nandi	26	69%	35%	73%	77%	58%	69%	65%	58%	62%	31%
Narok	34	50%	35%	74%	62%	47%	62%	59%	32%	44%	18%
Nyamira	54	74%	31%	85%	87%	46%	83%	81%	57%	65%	17%
Nyandarua	34	53%	35%	59%	68%	35%	50%	47%	44%	47%	24%
Nyeri	152	41%	17%	47%	51%	9%	34%	26%	20%	23%	7%
Samburu	11	64%	27%	64%	64%	18%	64%	64%	27%	27%	18%
Siaya	50	86%	58%	90%	92%	86%	90%	92%	86%	90%	50%
Taita Taveta	23	61%	13%	65%	52%	48%	65%	65%	39%	65%	13%
Tana River	7	43%	29%	71%	71%	29%	43%	43%	43%	43%	0%
Tharaka Nithi	18	56%	33%	72%	78%	17%	56%	44%	39%	44%	17%
Trans-Nzoia	24	29%	8%	42%	46%	25%	38%	38%	21%	29%	0%
Turkana	26	62%	38%	69%	54%	35%	50%	50%	31%	42%	19%
Uasin Gishu	40	33%	33%	38%	38%	33%	38%	35%	28%	35%	23%
Vihiga	29	76%	45%	72%	76%	66%	69%	69%	62%	62%	34%
Wajir	43	9%	5%	14%	12%	12%	12%	14%	5%	9%	2%
West Pokot	13	62%	46%	62%	54%	38%	54%	54%	38%	46%	23%
<b>Facility type</b>											
Hospital	607	56%	30%	60%	58%	45%	58%	57%	47%	55%	24%
Health centre	1064	61%	32%	66%	65%	44%	62%	59%	44%	52%	23%
Dispensary	0	0	0	0	0	0	0	0	0	0	0
Medical clinic / VCT	0	0	0	0	0	0	0	0	0	0	0
Maternity/ Nursing home	301	23%	12%	27%	28%	13%	20%	17%	12%	15%	5%
<b>Managing authority</b>											
Public	1089	71%	36%	76%	75%	54%	73%	71%	55%	65%	28%
Private, not-for-profit	360	53%	31%	58%	58%	35%	52%	48%	34%	43%	20%
Private, for-profit	513	18%	11%	19%	19%	11%	16%	14%	12%	13%	5%
Others	29	52%	28%	52%	52%	48%	48%	45%	41%	38%	17%
<b>Urban/Rural</b>											
Urban	750	41%	22%	43%	42%	29%	40%	37%	31%	35%	16%
Rural	1241	61%	32%	67%	66%	46%	63%	61%	46%	54%	23%
<b>Total</b>	<b>1991</b>	<b>45%</b>	<b>24%</b>	<b>49%</b>	<b>48%</b>	<b>34%</b>	<b>46%</b>	<b>44%</b>	<b>35%</b>	<b>42%</b>	<b>18%</b>

#### 4.7.6 Availability of TB products

A total of 5,840 health facilities reported offering Tuberculosis services country wide. The proportion of health facilities offering streptomycin 1gm injection (for re-treatment) was 47% and, a combination of Isoniazid + Rifampicin + Pyrazinamide + Ethambutol (4FDC) in 45% of the health institutions. This was better in Primary care facilities i.e. Health centres (63%) than hospitals (57%). Public health facilities are well stocked with Tuberculosis Tracer commodities to provide Tuberculosis services and in urban centres. The mean availability of TB products is shown in the figure below;

**Figure 19: Percentage of facilities that have tuberculosis medicines observed in stock and valid (N= 5840)**



The percentage of facilities having the different TB tracer commodities, by County, is shown in the proceeding table.



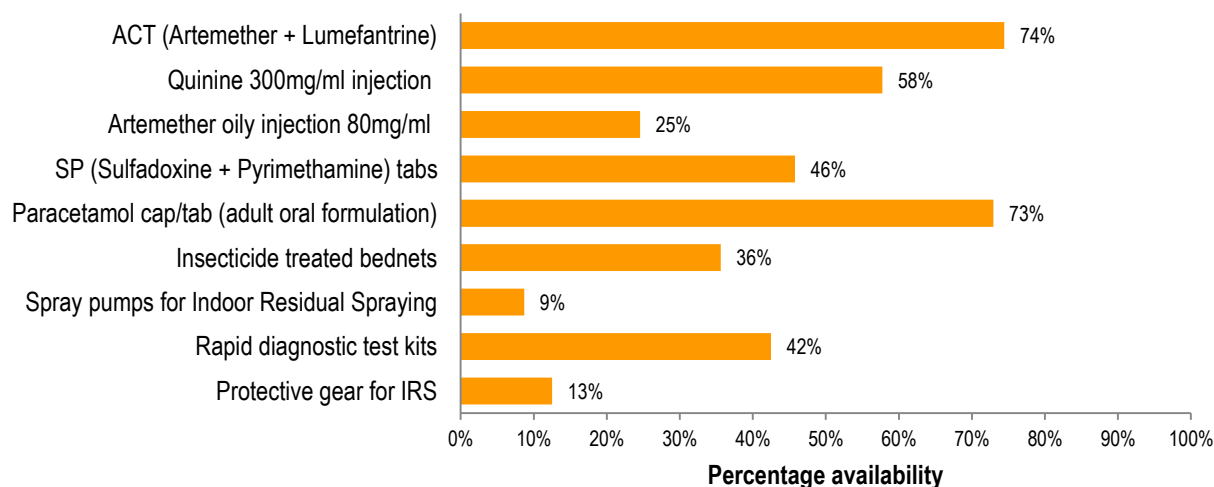
**Table 67: Percentage of facilities having the different TB tracer commodities, by County**

County	Total number of hospitals, health centres, dispensaries, and maternity/ nursing homes	Streptomycin 1gm Injection (for re-treatment)	Isoniazid	Rifampicin	Isoniazid + Rifampicin (2FDC)	Isoniazid + Rifampicin + Pyrazinamide (RHZ) (3FDC)	Isoniazid + Rifampicin + Ethambutol (RHE) (3FDC)	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol (4FDC)
Baringo	174	13%	7%	6%	17%	19%	18%	21%
Bomet	110	22%	17%	15%	24%	27%	23%	31%
Bungoma	121	53%	36%	27%	49%	43%	45%	60%
Busia	74	49%	35%	27%	51%	47%	54%	57%
Elgeyo-Marakwet	119	15%	10%	10%	16%	15%	16%	18%
Embu	99	52%	31%	20%	42%	55%	46%	56%
Garissa	79	25%	16%	20%	25%	27%	29%	29%
Homa Bay	158	56%	57%	42%	62%	66%	62%	67%
Isiolo	37	16%	30%	30%	35%	51%	35%	54%
Kajiado	156	17%	9%	7%	13%	15%	13%	15%
Kakamega	165	35%	18%	21%	42%	41%	40%	53%
Kericho	158	23%	18%	18%	25%	25%	23%	30%
Kiambu	123	33%	24%	15%	25%	27%	27%	30%
Kilifi	116	25%	31%	25%	36%	47%	38%	42%
Kirinyaga	103	42%	34%	20%	33%	43%	40%	43%
Kisii	124	51%	47%	36%	47%	53%	53%	58%
Kisumu	134	61%	48%	39%	55%	57%	50%	57%
Kitui	270	23%	20%	16%	28%	26%	26%	34%
Kwale	72	51%	49%	31%	46%	58%	58%	65%
Laikipia	75	17%	11%	9%	20%	17%	15%	24%
Lamu	32	19%	19%	19%	22%	31%	22%	41%
Machakos	180	47%	31%	22%	41%	37%	32%	49%
Makueni	153	40%	29%	18%	37%	44%	39%	54%
Mandera	56	13%	16%	18%	20%	21%	21%	27%
Marsabit	76	16%	13%	13%	16%	16%	24%	36%
Meru	192	34%	23%	13%	29%	30%	27%	36%
Migori	147	49%	41%	32%	45%	44%	42%	52%
Mombasa	104	42%	43%	38%	44%	42%	44%	49%
Muranga	148	42%	0%	24%	34%	46%	44%	45%
Nairobi	345	34%	28%	22%	31%	30%	27%	33%
Nakuru	224	25%	20%	19%	32%	31%	26%	37%
Nandi	169	15%	8%	8%	15%	16%	16%	22%
Narok	125	23%	13%	11%	25%	26%	26%	30%
Nyamira	96	33%	39%	34%	48%	54%	54%	53%
Nyandarua	84	32%	29%	19%	31%	31%	33%	40%
Nyeri	243	26%	26%	14%	20%	28%	24%	30%
Samburu	63	21%	19%	16%	24%	33%	30%	40%
Siaya	141	75%	63%	55%	67%	70%	68%	74%
Taita Taveta	63	43%	33%	21%	43%	43%	51%	56%
Tana River	47	23%	32%	34%	45%	36%	36%	38%
Tharaka Nithi	88	32%	24%	19%	26%	34%	25%	33%
Trans-Nzoia	69	36%	25%	20%	43%	46%	43%	49%
Turkana	118	18%	14%	12%	18%	21%	19%	21%
Uasin Gishu	136	17%	18%	19%	18%	17%	16%	14%
Vihiga	55	62%	31%	24%	51%	51%	51%	58%
Wajir	82	9%	9%	7%	11%	10%	10%	12%
West Pokot	80	19%	10%	6%	15%	16%	16%	21%
<b>Facility type</b>								
Hospital	607	57%	48%	38%	53%	55%	52%	57%
Health centre	1064	55%	43%	32%	51%	56%	54%	63%
Dispensary	3676	23%	19%	15%	25%	27%	25%	31%
Medical clinic/ Stand-alone VCT	0	0	0	0	0	0	0	0
Maternity/ Nursing home	301	25%	15%	19%	19%	17%	15%	22%
<b>Managing authority</b>								
Public	3978	37%	30%	22%	37%	40%	38%	46%
Private, not-for-profit	1327	28%	24%	21%	29%	29%	27%	31%
Private, for-profit	2538	20%	11%	14%	14%	14%	12%	16%
Others	152	21%	21%	19%	24%	23%	21%	26%
<b>Urban/Rural</b>								
Urban	1197	37%	29%	25%	35%	34%	33%	38%
Rural	4643	32%	26%	20%	32%	35%	33%	40%
<b>Total</b>	<b>5840</b>	<b>47%</b>	<b>37%</b>	<b>31%</b>	<b>42%</b>	<b>42%</b>	<b>40%</b>	<b>45%</b>

#### 4.7.7 Availability of malaria products

On Malaria medicines, 74% of the health facilities had stocked ACT drugs, 58% with quinine and 42% with rapid diagnostic test kits while 13% had protective gear for indoor residual spray (IRS) and 36% with Insecticide Treated Nets (ITNs). Public health facilities had better stocks of the malaria products followed by private-not-for-profit and rural health facilities had better stocks than the urban facilities across all the products. The mean availability of malaria tracer products is shown in the figure below;

**Figure 20: Percentage of facilities that have malaria medicines observed in stock and valid (N=7396)**



The percentage of facilities having the different malaria tracer commodities, by County, is shown in the proceeding table.

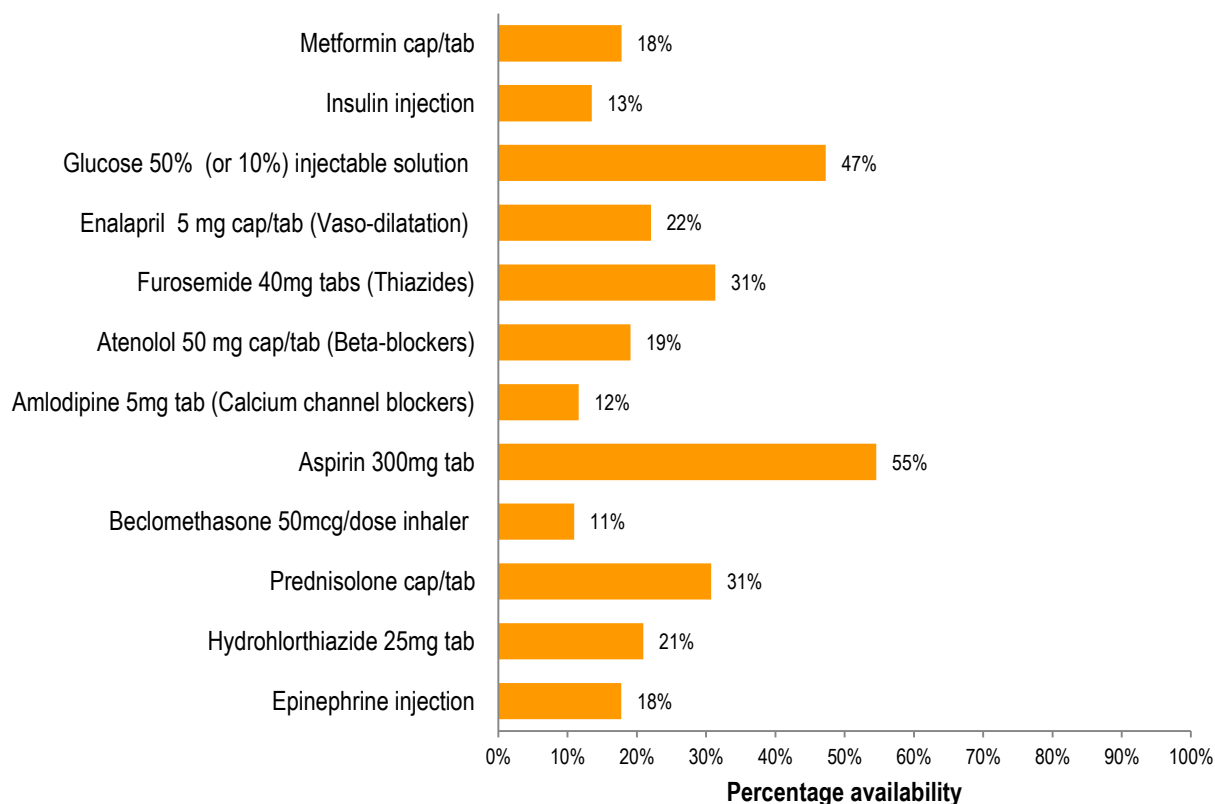
**Table 68: Percentage of facilities having the different malaria tracer commodities, by County**

County	Total number of facilities	ACT (Artemether + Lumefantrine)	Quinine 300mg/ml injection	Artemether oily injection 80mg/ml	SP (Sulfadoxine + Pyrimethamine) tabs	Paracetamol cap/tab (adult oral formulation)	Insecticide treated bednets for patients and their families and households	Spray pumps for Indoor Residual Spraying	Rapid diagnostic test kits	Protective gear for Indoor Residual Spraying (goggles, boots, gloves)
Baringo	169	81%	66%	18%	65%	79%	56%	11%	59%	7%
Bomet	111	97%	81%	9%	39%	88%	58%	22%	74%	21%
Bungoma	141	81%	69%	24%	73%	76%	50%	12%	41%	11%
Busia	80	89%	80%	20%	88%	82%	65%	8%	52%	8%
Elgeyo-Marakwet	116	85%	62%	11%	72%	83%	55%	9%	71%	14%
Embu	149	88%	65%	23%	28%	84%	46%	7%	47%	8%
Garissa	129	82%	65%	59%	40%	71%	12%	10%	57%	18%
Homa Bay	180	82%	76%	14%	83%	85%	68%	14%	59%	14%
Isiolo	41	93%	79%	31%	81%	100%	76%	17%	67%	10%
Kajiado	224	75%	68%	32%	64%	84%	38%	8%	54%	19%
Kakamega	229	85%	76%	23%	70%	76%	54%	8%	50%	8%
Kericho	174	91%	72%	24%	52%	84%	53%	16%	55%	16%
Kiambu	346	77%	33%	30%	26%	78%	18%	9%	39%	16%
Kilifi	199	72%	61%	22%	64%	75%	34%	9%	53%	16%
Kirinyaga	142	61%	44%	28%	48%	70%	32%	7%	17%	10%
Kisii	140	93%	73%	26%	36%	87%	71%	21%	52%	21%
Kisumu	154	88%	77%	32%	78%	88%	61%	14%	63%	17%
Kitui	313	88%	69%	23%	18%	74%	57%	7%	60%	11%
Kwale	95	95%	82%	28%	89%	94%	54%	3%	20%	3%
Laikipia	86	82%	70%	16%	47%	80%	0%	12%	59%	17%
Lamu	42	84%	81%	30%	86%	86%	65%	16%	44%	23%
Machakos	255	73%	59%	21%	24%	73%	44%	7%	44%	7%
Makueni	184	84%	70%	12%	19%	70%	56%	11%	62%	17%
Mandera	64	81%	52%	30%	43%	72%	13%	12%	48%	14%
Marsabit	89	81%	61%	17%	56%	73%	11%	4%	48%	4%
Meru	361	67%	48%	24%	26%	66%	27%	5%	26%	9%
Migori	169	77%	57%	27%	77%	70%	64%	7%	45%	10%
Mombasa	293	51%	49%	39%	42%	54%	18%	5%	19%	8%
Muranga	184	84%	0%	20%	41%	91%	57%	13%	42%	15%
Nairobi	868	44%	30%	25%	22%	44%	6%	4%	17%	10%
Nakuru	317	74%	67%	29%	52%	77%	5%	4%	47%	27%
Nandi	175	68%	68%	14%	39%	72%	43%	9%	47%	8%
Narok	129	84%	78%	16%	51%	81%	60%	17%	56%	20%
Nyamira	114	93%	78%	20%	43%	91%	73%	12%	39%	24%
Nyandarua	116	69%	36%	22%	57%	77%	3%	11%	18%	7%
Nyeri	245	63%	12%	7%	21%	63%	1%	7%	28%	8%
Samburu	71	81%	57%	10%	47%	81%	4%	5%	56%	10%
Siaya	155	87%	76%	16%	89%	89%	72%	9%	63%	18%
Taita Taveta	81	78%	67%	27%	78%	84%	48%	10%	12%	12%
Tana River	49	76%	71%	55%	69%	73%	45%	12%	59%	10%
Tharaka Nithi	116	86%	57%	21%	49%	84%	27%	3%	35%	5%
Trans-Nzoia	137	57%	48%	26%	28%	57%	39%	7%	39%	13%
Turkana	136	82%	73%	30%	55%	79%	8%	3%	49%	5%
Uasin Gishu	146	74%	61%	29%	57%	74%	49%	18%	48%	16%
Vihiga	87	85%	82%	25%	80%	85%	66%	8%	53%	11%
Wajir	110	90%	67%	56%	29%	69%	4%	6%	47%	9%
West Pokot	84	80%	61%	23%	47%	76%	47%	17%	32%	11%
<b>Facility type</b>										
Hospital	607	79%	71%	34%	58%	80%	45%	24%	41%	30%
Health centre	1064	87%	72%	27%	59%	85%	53%	17%	60%	21%
Dispensary	3676	84%	63%	16%	50%	80%	46%	7%	54%	9%
Medical clinic/ Stand-alone VCT	2346	53%	40%	30%	31%	54%	10%	4%	19%	8%
Maternity/Nursing home	301	77%	69%	57%	50%	80%	39%	13%	41%	27%
<b>Managing authority</b>										
Public	3978	87%	67%	15%	53%	82%	52%	12%	60%	14%
Private, not-for-profit	1327	74%	57%	33%	48%	77%	35%	7%	34%	15%
Private, for-profit	2538	57%	45%	35%	35%	59%	13%	5%	22%	10%
Others	152	53%	39%	19%	27%	53%	19%	4%	22%	10%
<b>Urban/Rural</b>										
Urban	2450	59%	45%	35%	36%	60%	18%	8%	26%	13%
Rural	4946	82%	64%	19%	51%	80%	45%	9%	51%	12%
<b>Total</b>	<b>7396</b>	<b>74%</b>	<b>58%</b>	<b>25%</b>	<b>46%</b>	<b>73%</b>	<b>36%</b>	<b>9%</b>	<b>42%</b>	<b>13%</b>

#### 4.7.8 Availability of NCD products

The proportion of health facilities stocking insulin injection was only in 13%, Aspirin 300mg tabulates was in 55% and Glucose solution in 47% of the health facilities. Most of the NCDs drugs are not stocked in the facilities surveyed. Hospitals and Maternity and nursing homes were better stocked with NCD products than primary care facilities for health centres and dispensaries. Also urban facilities had these tracer products better than in rural facilities. The mean availability of NCD tracer products is shown in the figure below;

**Figure 21: Percentage of facilities that have non-communicable disease tracer products observed in stock and valid (N=7396)**



The percentage of facilities having the different NCD tracer commodities, by County, is shown in the proceeding table.

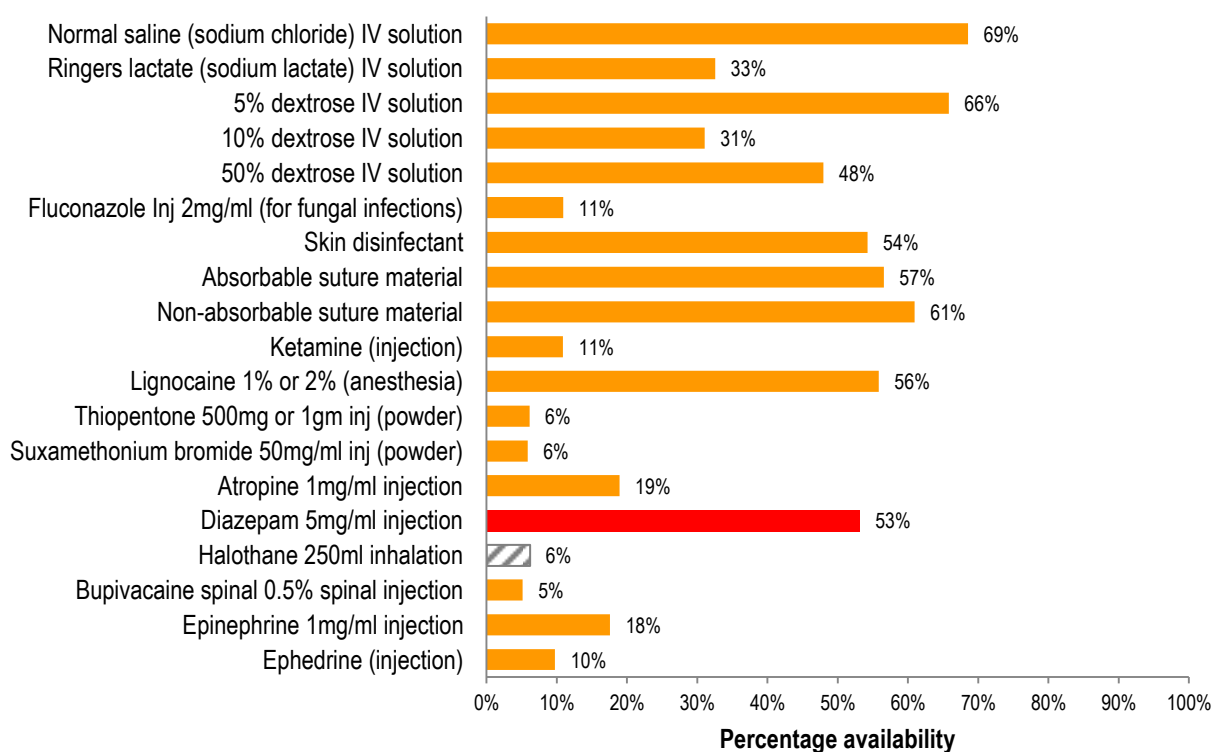
**Table 69: Percentage of facilities having the different NCD tracer commodities, by County**

County	Total number of facilities	Mean availability of tracer items	Metformin cap/tab	Insulin injection	Glucose 50% (or 10%) injectable solution	Enalapril 5 mg cap/tab (Vaso-dilatation)	Furosemide 40mg tabs (Thiazides)	Atenolol 50 mg cap/tab (Beta-blockers)	Amlodipine 5mg tab (Calcium channel blockers)	Aspirin 300mg tab	Beclomethasone 50mcg/dose inhaler	Prednisolone cap/tab	Hydrochlorothiazide 25mg tab	Epinephrine injection
Baringo	169		4%	5%	42%	9%	12%	7%	4%	67%	3%	14%	6%	8%
Bomet	111		11%	10%	64%	12%	13%	7%	3%	72%	10%	12%	8%	17%
Bungoma	141		11%	11%	52%	20%	25%	15%	9%	54%	4%	24%	17%	19%
Busia	80		12%	13%	61%	24%	24%	13%	5%	65%	4%	25%	19%	28%
Elgeyo-Marakwet	116		6%	7%	42%	4%	12%	7%	3%	76%	2%	8%	7%	10%
Embu	149		17%	13%	45%	24%	35%	15%	10%	64%	9%	33%	21%	25%
Garissa	129		24%	23%	59%	26%	29%	24%	18%	60%	17%	32%	26%	24%
Homa Bay	180		7%	10%	48%	18%	24%	13%	8%	57%	8%	21%	16%	15%
Isiolo	41		12%	5%	62%	31%	31%	17%	19%	69%	12%	31%	21%	33%
Kajiado	224		23%	17%	58%	28%	43%	28%	19%	62%	16%	46%	25%	13%
Kakamega	229		11%	13%	55%	16%	26%	14%	7%	55%	6%	21%	17%	22%
Kericho	174		10%	7%	60%	15%	21%	12%	10%	70%	15%	24%	16%	16%
Kiambu	346		35%	21%	50%	40%	54%	34%	17%	55%	17%	55%	39%	24%
Kilifi	199		18%	13%	53%	18%	39%	19%	14%	45%	8%	32%	13%	19%
Kirinyaga	142		18%	13%	30%	24%	35%	19%	6%	50%	11%	29%	21%	11%
Kisii	140		17%	22%	57%	23%	27%	23%	12%	63%	13%	28%	26%	26%
Kisumu	154		21%	19%	59%	25%	37%	25%	16%	69%	14%	39%	23%	28%
Kitui	313		11%	11%	54%	14%	21%	12%	5%	61%	7%	19%	18%	20%
Kwale	95		13%	8%	56%	21%	40%	15%	4%	65%	13%	36%	20%	28%
Laikipia	86		22%	19%	66%	25%	37%	29%	18%	71%	14%	32%	27%	35%
Lamu	42		30%	12%	49%	40%	51%	35%	16%	53%	19%	42%	28%	26%
Machakos	255		23%	14%	41%	22%	32%	19%	9%	59%	10%	29%	19%	21%
Makueni	184		16%	16%	54%	20%	31%	19%	12%	59%	6%	27%	19%	26%
Mandera	64		19%	22%	62%	28%	32%	32%	19%	72%	19%	28%	23%	22%
Marsabit	89		15%	13%	40%	20%	30%	14%	11%	69%	12%	31%	24%	29%
Meru	361		21%	11%	29%	28%	34%	17%	9%	46%	11%	37%	30%	15%
Migori	169		14%	16%	51%	18%	29%	19%	7%	43%	10%	25%	20%	14%
Mombasa	293		21%	16%	40%	18%	37%	20%	17%	26%	13%	36%	18%	15%
Muranga	184		24%	0%	30%	27%	39%	26%	11%	68%	12%	38%	28%	33%
Nairobi	868		22%	16%	36%	25%	34%	24%	18%	30%	17%	36%	24%	14%
Nakuru	317		27%	17%	57%	30%	38%	23%	15%	59%	13%	43%	27%	19%
Nandi	175		6%	7%	44%	11%	13%	5%	4%	49%	5%	12%	9%	7%
Narok	129		17%	19%	61%	20%	26%	18%	11%	67%	11%	24%	16%	13%
Nyamira	114		9%	14%	57%	21%	25%	15%	3%	70%	4%	25%	18%	15%
Nyandarua	116		22%	11%	53%	30%	51%	23%	8%	61%	9%	41%	32%	15%
Nyeri	245		28%	13%	29%	35%	45%	36%	21%	60%	14%	39%	38%	19%
Samburu	71		3%	3%	57%	16%	23%	8%	4%	70%	6%	23%	9%	5%
Siaya	155		19%	16%	61%	21%	30%	15%	8%	68%	11%	30%	16%	17%
Taita Taveta	81		19%	12%	54%	27%	30%	23%	12%	59%	4%	21%	17%	26%
Tana River	49		2%	20%	57%	8%	22%	6%	6%	55%	2%	14%	4%	4%
Tharaka Nithi	116		13%	7%	31%	18%	29%	16%	7%	76%	6%	32%	21%	15%
Trans-Nzoia	137		9%	8%	35%	13%	18%	11%	9%	32%	6%	21%	11%	6%
Turkana	136		6%	11%	46%	11%	12%	9%	7%	43%	10%	27%	12%	11%
Uasin Gishu	146		25%	8%	55%	25%	22%	16%	15%	60%	13%	26%	17%	11%
Vihiga	87		8%	15%	62%	17%	34%	20%	9%	56%	14%	31%	22%	16%
Wajir	110		23%	15%	54%	26%	35%	26%	18%	65%	14%	32%	22%	25%
West Pokot	84		5%	4%	43%	7%	16%	7%	3%	61%	2%	14%	4%	4%
<b>Facility type</b>														
Hospital	607		41%	61%	72%	65%	67%	64%	29%	66%	26%	55%	65%	39%
Health centre	1064		17%	11%	61%	18%	29%	15%	10%	71%	10%	27%	19%	20%
Dispensary	3676		9%	5%	46%	11%	17%	8%	6%	63%	6%	16%	10%	14%
Medical clinic/ Stand-alone VCT	2346		22%	12%	35%	26%	40%	23%	14%	31%	13%	43%	24%	15%
Maternity/ Nursing home	301		51%	47%	70%	56%	71%	51%	35%	57%	31%	72%	52%	34%
<b>Managing authority</b>														
Public	3978		6%	8%	50%	10%	14%	9%	5%	68%	4%	10%	10%	16%
Private, not-for-profit	1327		34%	22%	55%	38%	54%	31%	18%	56%	19%	57%	37%	22%
Private, for-profit	2538		28%	17%	40%	32%	46%	28%	18%	35%	17%	48%	30%	18%
Others	152		15%	13%	34%	19%	26%	17%	14%	31%	13%	32%	16%	12%
<b>Urban/Rural</b>														
Urban	2450		27%	22%	45%	31%	43%	30%	20%	40%	18%	44%	29%	19%
Rural	4946		13%	9%	48%	17%	25%	14%	7%	62%	7%	24%	17%	17%
<b>Total</b>	<b>7396</b>		<b>18%</b>	<b>13%</b>	<b>47%</b>	<b>22%</b>	<b>31%</b>	<b>19%</b>	<b>12%</b>	<b>55%</b>	<b>11%</b>	<b>31%</b>	<b>21%</b>	<b>18%</b>

#### 4.7.9 Availability of general medicines

The general tracer medicines availability was Amoxicillin syrup suspensions (69%), gentamicin injection (53%), and ORS sachets (74%), Zinc tablets (63%), ACT (74%), Vitamin A capsules (61%) and paracetamol syrup / suspension (72%). On availability of other general medicines, 69% of the health facilities had stocked Normal saline IV solution, 33% with Ringers lactate IV solution while 66% had 5% dextrose IV solution. For the anaesthetic and pain relaxant drugs, 56% of the health facilities had stocked Lignocaine, 19% with Atropine, 53% with Diazepam and only 6% had Halothane. Maternity and nursing homes and hospitals had a mean availability of 62%, and 60% with private not-for-profit having better availability of general medicines (54%). The mean availability of the general tracer medicines/items was 49%. The mean availability of the general tracer medicines is shown in figure below

**Figure 22: Percentage of facilities that have general medicines observed in stock and valid (N=7396)**



The percentage of facilities having the different general medicines, by County, is shown in the proceeding table.

**Table 70: Percentage of facilities having the different general medicines, by County**

	Total number of facilities	Mean availability of tracer items	Percent of facilities with respective tracer items										
			Amoxicillin syrup /suspension	Ampicillin powder for injection	Ceftriaxone powder for injection	Gentamicin injectable	Procaine benzylpenicillin powder for injection	ORS sachets	Zinc tablets	ACT	Vitamin A capsules	Morphine granule, injectable or cap/tab	Paracetamol syrup/suspension
Baringo	169	49%	79%	12%	10%	56%	31%	84%	76%	81%	65%	2%	72%
Bomet	111	55%	84%	11%	13%	33%	33%	96%	85%	97%	81%	5%	83%
Bungoma	141	49%	67%	12%	26%	56%	36%	77%	66%	81%	68%	4%	72%
Busia	80	52%	70%	12%	22%	67%	29%	84%	76%	89%	80%	4%	78%
Elgeyo-Marakwet	116	48%	82%	9%	15%	42%	26%	85%	75%	85%	46%	7%	78%
Embu	149	54%	82%	9%	33%	63%	29%	81%	74%	88%	80%	5%	79%
Garissa	129	58%	65%	29%	40%	49%	52%	85%	83%	82%	67%	10%	85%
Homa Bay	180	54%	75%	14%	27%	51%	43%	85%	78%	82%	68%	9%	80%
Isiolo	41	63%	81%	12%	24%	64%	36%	100%	95%	93%	100%	17%	93%
Kajiado	224	53%	81%	16%	47%	54%	41%	80%	63%	75%	57%	4%	81%
Kakamega	229	52%	64%	14%	28%	61%	43%	82%	64%	85%	71%	6%	80%
Kericho	174	56%	86%	10%	25%	36%	46%	87%	78%	91%	68%	18%	87%
Kiambu	346	55%	77%	18%	52%	71%	46%	78%	63%	77%	69%	11%	76%
Kilifi	199	47%	70%	13%	37%	61%	37%	69%	56%	72%	55%	5%	72%
Kirinyaga	142	42%	71%	11%	25%	44%	26%	71%	49%	61%	53%	7%	64%
Kisii	140	57%	79%	15%	26%	55%	46%	84%	74%	93%	76%	13%	89%
Kisumu	154	57%	77%	16%	44%	54%	46%	85%	75%	88%	68%	10%	86%
Kitui	313	50%	58%	7%	20%	53%	29%	81%	70%	88%	76%	7%	75%
Kwale	95	60%	93%	8%	34%	71%	52%	88%	81%	95%	77%	4%	86%
Laikipia	86	53%	77%	10%	39%	42%	32%	78%	76%	82%	77%	9%	74%
Lamu	42	55%	81%	12%	51%	70%	42%	74%	67%	84%	70%	14%	93%
Machakos	255	49%	73%	11%	34%	58%	38%	73%	65%	73%	65%	6%	75%
Makueni	184	51%	50%	11%	23%	59%	39%	82%	74%	84%	78%	6%	78%
Mandera	64	55%	70%	25%	30%	52%	45%	83%	84%	81%	61%	13%	80%
Marsabit	89	49%	57%	8%	27%	55%	19%	84%	76%	81%	72%	4%	80%
Meru	361	42%	64%	11%	31%	51%	33%	62%	50%	67%	47%	4%	65%
Migori	169	48%	46%	22%	30%	46%	41%	79%	67%	77%	57%	11%	72%
Mombasa	293	38%	53%	15%	45%	41%	39%	48%	39%	51%	34%	8%	57%
Muranga	184	60%	95%	20%	35%	72%	40%	91%	88%	84%	80%	8%	77%
Nairobi	868	34%	45%	15%	38%	38%	31%	46%	36%	44%	36%	6%	46%
Nakuru	317	53%	78%	15%	44%	62%	41%	78%	66%	74%	67%	9%	76%
Nandi	175	40%	63%	9%	17%	43%	27%	62%	53%	68%	46%	4%	59%
Narok	129	53%	76%	19%	27%	36%	42%	81%	75%	84%	70%	16%	74%
Nyamira	114	57%	86%	16%	29%	54%	42%	82%	71%	93%	73%	10%	88%
Nyandarua	116	50%	78%	9%	28%	65%	37%	87%	56%	69%	74%	4%	76%
Nyeri	245	45%	74%	11%	31%	59%	25%	68%	60%	63%	57%	6%	74%
Samburu	71	49%	75%	8%	21%	57%	30%	83%	70%	81%	69%	3%	73%
Siaya	155	55%	79%	9%	28%	56%	47%	83%	79%	87%	72%	6%	85%
Taita Taveta	81	50%	79%	10%	26%	56%	31%	75%	72%	78%	68%	7%	73%
Tana River	49	48%	53%	10%	31%	61%	31%	67%	63%	76%	71%	14%	71%
Tharaka Nithi	116	55%	87%	10%	21%	70%	46%	85%	72%	86%	70%	3%	84%
Trans-Nzoia	137	35%	50%	9%	26%	44%	22%	57%	33%	57%	47%	6%	55%
Turkana	136	54%	82%	20%	32%	62%	27%	82%	77%	82%	67%	10%	72%
Uasin Gishu	146	50%	72%	22%	31%	40%	34%	72%	65%	74%	65%	14%	69%
Vihiga	87	58%	82%	17%	37%	69%	48%	84%	69%	85%	78%	6%	89%
Wajir	110	52%	44%	12%	32%	42%	40%	85%	85%	90%	71%	11%	84%
West Pokot	84	49%	70%	5%	24%	49%	52%	75%	67%	80%	64%	3%	73%
Facility type													
Hospital	607	60%	80%	24%	58%	74%	43%	79%	74%	79%	67%	26%	82%
Health centre	1064	57%	75%	13%	27%	65%	40%	89%	79%	87%	82%	7%	83%
Dispensary	3676	51%	73%	8%	17%	49%	32%	84%	77%	84%	75%	5%	77%
Medical clinic/ Stand-alone VCT	2346	37%	54%	16%	46%	45%	38%	50%	34%	53%	31%	5%	57%
Maternity/ Nursing home	301	62%	79%	41%	72%	76%	60%	76%	63%	77%	63%	12%	80%
Managing authority													
Public	3978	52%	73%	7%	13%	51%	29%	87%	81%	87%	78%	6%	80%
Private, not-for-profit	1327	54%	74%	18%	53%	61%	46%	76%	62%	74%	65%	10%	75%
Private, for-profit	2538	42%	60%	21%	50%	51%	44%	55%	40%	57%	36%	7%	61%
Others	152	35%	47%	10%	34%	39%	32%	49%	37%	53%	39%	7%	50%
Urban/Rural													
Urban	2450	43%	59%	19%	48%	50%	38%	57%	47%	59%	43%	9%	61%
Rural	4946	51%	74%	11%	24%	54%	36%	82%	72%	82%	71%	6%	78%
Total	7396	49%	69%	13%	32%	53%	37%	74%	63%	74%	61%	7%	72%

## 5. Readiness to provide health services

Service readiness looks at the capacity of the health facilities to provide required services. This is in terms of availability of basic requirements to provide services – infrastructure, amenities, basic equipment, standard precautions for infection control, diagnostic tests, medicines and commodities.

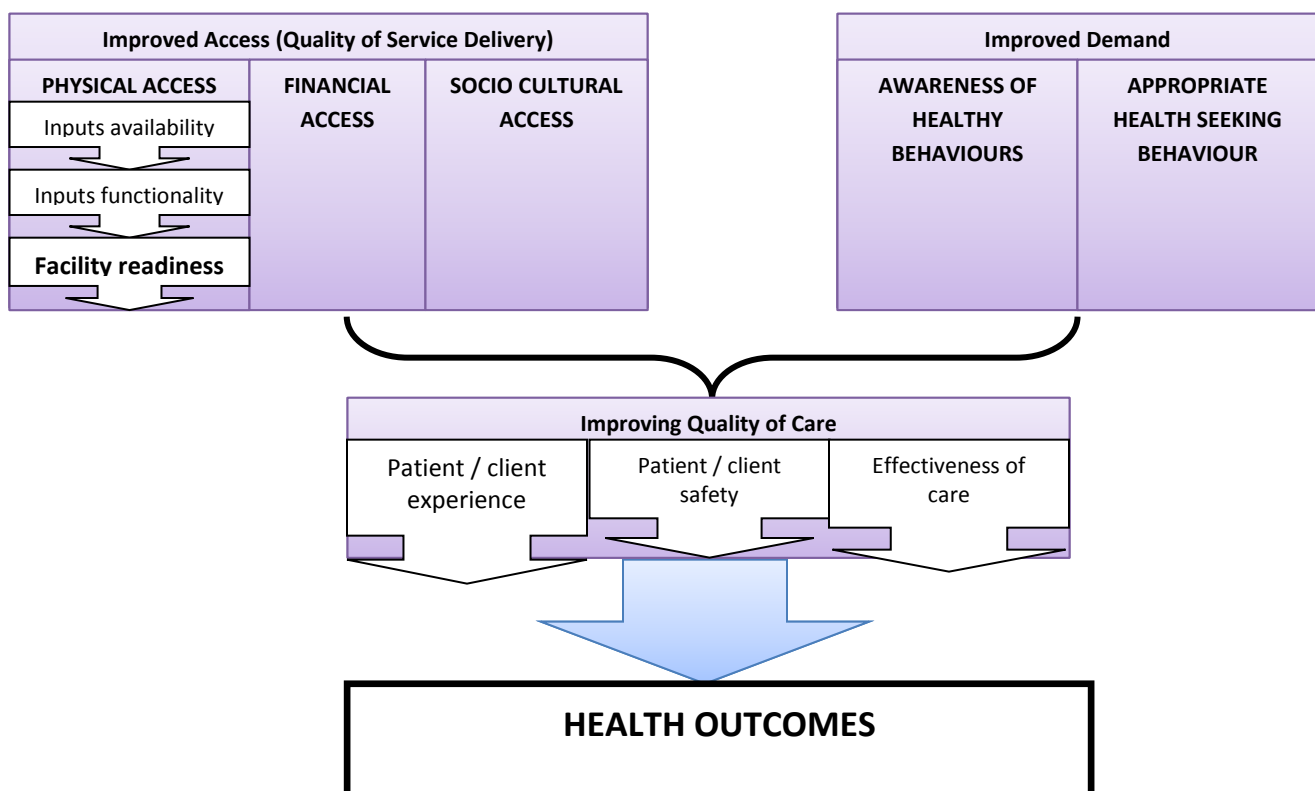
A facility may have the required infrastructure, and staff for a maternity unit, but without basic equipment, or services like water / electricity to allow it provide quality maternity services. Such a facility is not ‘ready’ for maternity services provision.

It may have the required staff and equipment for provision of child health services, but the staffs do not have the up to date skills in providing the services. Such a facility is not ‘ready’ for child health services provision

The said facility may have the staff, infrastructure and commodities for running immunization services, but the vaccines are expired / poorly stored that they are not potent. Such a facility is not ‘ready’ for immunization services provision.

Readiness is therefore a critical element in assuring access to quality health services, which affects utilization patterns. Significant investments may be made into improving inputs (building facilities; hiring staff; buying equipment, etc.), but if the facilities are not made ‘ready’ to provide services, then the utilization of the services will not be as expected – the investments would not be used maximally. Physical access to services can only be assured, if inputs are made available, are functional, and the facility is ready to provide the service.

Figure 23: Health Outputs and the role of service readiness



In the SARAM, we have focused on three elements of service readiness

- (1) **General Service Readiness**: Looking at the overall readiness of facilities to provide all Health Services they are expected to provide. The general service readiness is derived from four critical readiness variables:



- i. **Availability of basic amenities.** The provision of an enabling working environment is a basic requirement for an effective and functional health care delivery system. Such enabling environment includes the physical infrastructure and the availability of basic requirements for delivering quality services. Service readiness for basic amenities was assessed based on the availability of the following tracer items: room with privacy, power supply, communication equipment, improved water source, adequate sanitation facilities, computer with internet access, and emergency transportation.
  - ii. **Availability of basic equipment.** This looks at the availability of critical equipment, required for cross cutting delivery of health services. Facilities were assessed on the availability of the following basic equipment items: adult weighing scale, child/infant weighing scale, thermometer, stethoscope, blood pressure machines and light source.
  - iii. **Availability of standard precautions.** Patients and health staff Safety is an essential part of the health service delivery system. Health care workers must be able to work in a safe working environment and provide services in a manner safest to their clients. Service readiness with respect to standard precautions was assessed based on the availability of the following 10 tracer items: safe disposal of sharps, safe final disposal of infectious wastes, appropriate storage of sharps wastes, appropriate storage of infectious waste, disinfectant, disposable or auto-disable syringes, soap and water or alcohol based hand rub, latex gloves, and guidelines on standard precautions.
  - iv. **Availability of essential medicines.** None availability of medicines is commonly cited as the most important element of quality by health care consumers, and the absence of medicines is a key factor in the underuse of public health services. Facilities were assessed on whether they had the following 14 essential medicines in stock on the day of the assessment: Amitriptyline, Amoxicillin, Atenolol, Captopril, Ceftriaxone injection, Ciprofloxacin, Co-trimoxazole suspension, Diazepam, Diclofenac, Glibenclamide, Omeprazole, Paracetamol suspension, Salbutamol inhaler, and Simvastatin. Only medicines that were observed at the facility with valid expiration date were considered.
- (2) **Service specific readiness:** Looking at readiness of facilities to provide specific health services – focusing on HIV, TB, Malaria, Immunization, Child Health, maternal health, NCD’s and surgical services. Basic amenities and standard precautions are all considered cross cutting, and should be available for all services. Tracer equipment and essential medicines are defined for each program area in the table overleaf.
  - (3) **Health leadership readiness:** Looking at the availability of critical capacity and actions needed for stewardship of the health agenda.

**Table 71: Specific service readiness for selected services**

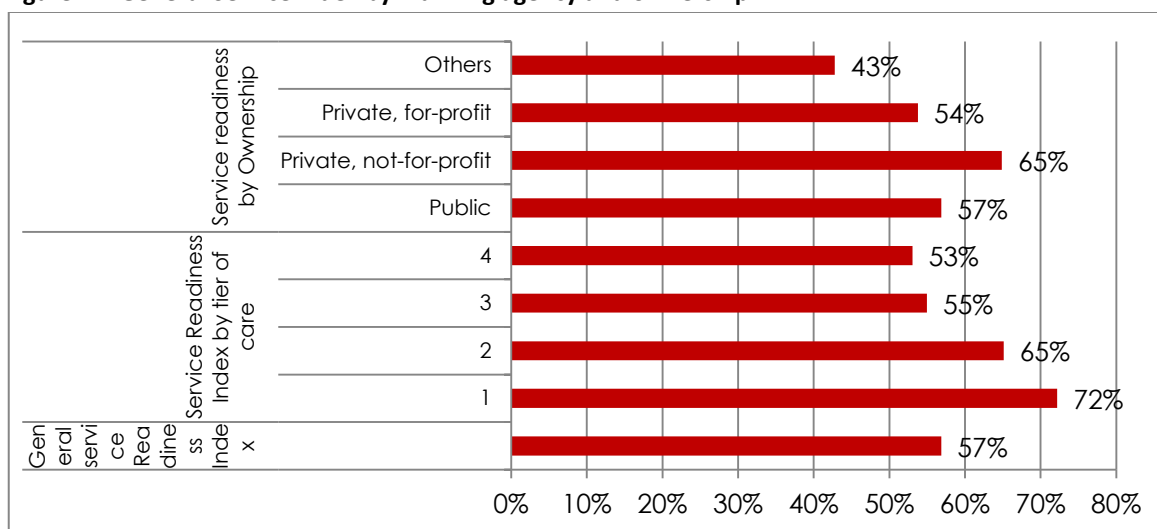
Program area	Readiness variables tracer items			
	Cross cutting basic amenities	Crises cutting standard precautions	Basic equipment	Specific essential medicines
HIV	<ul style="list-style-type: none"> <li>- room with privacy</li> <li>- power supply</li> <li>- communication equipment</li> <li>- improved water source</li> <li>- adequate sanitation facilities</li> <li>- computer with internet access</li> <li>- Emergency transportation.</li> </ul>	<ul style="list-style-type: none"> <li>- safe disposal of sharps</li> <li>- safe final disposal of infectious wastes</li> <li>- appropriate storage of sharps wastes</li> <li>- appropriate storage of infectious waste</li> <li>- disinfectant</li> <li>- disposable or auto-disable syringes</li> <li>- soap and water or alcohol based hand rub</li> <li>- latex gloves</li> <li>- Guidelines on standard precautions.</li> </ul>	<ul style="list-style-type: none"> <li>- adult weighing scale,</li> <li>- thermometer,</li> <li>- stethoscope</li> <li>- blood pressure machines</li> </ul>	<ul style="list-style-type: none"> <li>- ZDV</li> <li>- NVP</li> <li>- AZT + 3TC + NVP</li> <li>- TDF + 3TC + NVP</li> <li>- TDF + 3TC + EFV</li> </ul>
TB			<ul style="list-style-type: none"> <li>- adult weighing scale,</li> <li>- thermometer,</li> <li>- stethoscope</li> <li>- microscope</li> </ul>	<ul style="list-style-type: none"> <li>- Streptomycin 1gm injection</li> <li>- Isoniazid + Rifampicin + pyrazinamide + Ethambutol</li> <li>- Isoniazid + Rifampicin</li> </ul>
Malaria			<ul style="list-style-type: none"> <li>- thermometer,</li> <li>- stethoscope</li> <li>- light source</li> <li>- Spray pumps for IRS</li> <li>- RDT's</li> </ul>	<ul style="list-style-type: none"> <li>- ACT</li> <li>- Quinine 300gm Injectable</li> <li>- Paracetamol cap / tab</li> <li>- ITN's</li> </ul>
Child Health - Immunization			<ul style="list-style-type: none"> <li>- child/infant weighing scale</li> <li>- light source</li> </ul>	<ul style="list-style-type: none"> <li>- Measles vaccine</li> <li>- Pentavalent vaccine</li> <li>- Oral polio vaccine</li> <li>- BCG vaccine</li> <li>- Tetanus toxoid vaccine</li> <li>- PCV-10 vaccine</li> <li>- Rotavirus vaccine</li> </ul>
Child Health – child care			<ul style="list-style-type: none"> <li>- child/infant weighing scale</li> <li>- thermometer,</li> <li>- stethoscope</li> <li>- blood pressure machines</li> <li>- light source</li> </ul>	<ul style="list-style-type: none"> <li>- Amoxicillin syrup / suspension</li> <li>- Gentamycin injectable</li> <li>- Procaine benzyl penicillin</li> <li>- ORS sachets</li> <li>- Zinc tablets</li> <li>- Vitamin A capsules</li> <li>- Paracetamol syrup</li> </ul>
Maternal Health			<ul style="list-style-type: none"> <li>- adult weighing scale,</li> <li>- child/infant weighing scale</li> <li>- thermometer,</li> <li>- stethoscope</li> <li>- blood pressure machines</li> <li>- light source</li> </ul>	<ul style="list-style-type: none"> <li>- Oxytocin injectable</li> <li>- Magnesium sulphate injectable</li> <li>- Gentamycin injectable</li> <li>- Misoprostol cap / tab</li> <li>- Beta/dexa-methasone injectable</li> </ul>
NCD's			<ul style="list-style-type: none"> <li>- adult weighing scale,</li> <li>- stethoscope</li> <li>- blood pressure machines</li> </ul>	<ul style="list-style-type: none"> <li>- Glucose 50% (or 10%) inj</li> <li>- Furosemide 40mg tabs</li> <li>- Atenolol 50mg cap/tab</li> <li>- Asprin 300mg tab</li> <li>- Beclomethasone 50mcg/dose inhaler</li> <li>- Prednisolone cap/tab</li> </ul>
Surgical care			<ul style="list-style-type: none"> <li>- adult weighing scale,</li> <li>- child/infant weighing scale</li> <li>- thermometer,</li> <li>- stethoscope</li> <li>- blood pressure machines</li> <li>- light source</li> </ul>	<ul style="list-style-type: none"> <li>- Amoxicillin,</li> <li>- Atenolol,</li> <li>- Ceftriaxone injection,</li> <li>- Ciprofloxacin,</li> <li>- Co-trimoxazole suspension,</li> <li>- Diazepam,</li> <li>- Diclofenac</li> </ul>

## 5.1 General Service readiness

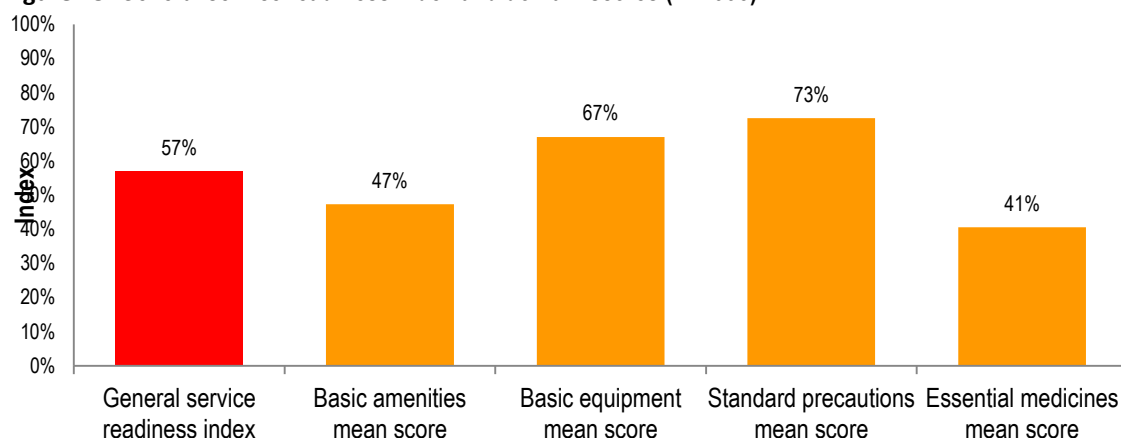
General service Readiness refers to the overall capacity of the health facilities to provide the general health services. The readiness in this aspect showed the basic requirements to provide services such as infrastructure, amenities, basic equipment, standard precautions for infection control, diagnostic tests, medicines and commodities.

Information on readiness is captured around four domains of standard precautions, basic amenities, Basic equipment and Essential medicines. Generally, the service readiness index was 57% - implying 57% of all health facilities are ready to provide KEPH services. Of these, 47% have the basic amenities to provide services; 67% have the basic equipment required, 41% have essential medicines and 73% have the standard precautions. Hospitals had the highest service index of 72% followed by the nursing and maternity homes with 71% and health centres with 65%. On the other hand, the Private not-for-profit facilities have the highest general readiness index (65%) compared with the public (57%) and Private for-profit (54%). There was no significant difference between urban and rural health facilities.

**Figure 24: General Service index by manning agency and ownership**



**Figure 25: General service readiness index and domain scores (N=7995)**



A similar pattern is seen across Counties, as shown in the preceding tables.

**Table 72: General service readiness, by County**

County	Number of Health facilities	General service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	52%	84%	64%	49%	59%	12%	51%	60%	9%
Bomet	111	62%	87%	68%	59%	60%	60%	75%	77%	33%
Bungoma	141	56%	81%	65%	50%	57%	55%	65%	55%	46%
Busia	80	58%	78%	63%	54%	59%	55%	69%	64%	47%
Elgeyo-Marakwet	116	51%	86%	64%	47%	13%	51%	69%	20%	0
Embu	149	64%	90%	75%	62%	61%	62%	74%	61%	0
Garissa	129	58%	77%	59%	47%	61%	53%	79%	61%	90%
Homa Bay	180	60%	78%	61%	60%	49%	60%	64%	50%	50%
Isiolo	41	64%	67%	70%	60%	77%	60%	67%	81%	65%
Kajiado	224	62%	69%	66%	57%	64%	56%	66%	65%	82%
Kakamega	229	57%	79%	62%	53%	54%	58%	57%	55%	40%
Kericho	174	58%	86%	60%	57%	48%	57%	66%	62%	32%
Kiambu	346	67%	75%	72%	65%	64%	66%	68%	67%	27%
Kilifi	199	58%	86%	73%	57%	53%	60%	73%	55%	37%
Kirinyaga	142	59%	50%	76%	63%	53%	66%	59%	51%	0
Kisii	140	65%	83%	67%	55%	77%	61%	69%	83%	78%
Kisumu	154	66%	90%	68%	57%	74%	60%	79%	76%	56%
Kitui	313	57%	79%	61%	53%	65%	55%	68%	65%	27%
Kwale	95	65%	88%	76%	60%	67%	62%	69%	70%	64%
Laikipia	86	64%	87%	64%	64%	59%	64%	67%	64%	54%
Lamu	42	65%	71%	78%	61%	69%	61%	78%	69%	0
Machakos	255	56%	80%	67%	52%	56%	55%	59%	57%	11%
Makueni	184	60%	80%	61%	58%	58%	58%	72%	57%	69%
Mandera	64	52%	71%	51%	33%	75%	43%	66%	74%	73%
Marsabit	89	56%	85%	60%	51%	59%	51%	73%	57%	79%
Meru	361	56%	75%	70%	55%	53%	58%	68%	53%	40%
Migori	169	61%	83%	68%	52%	70%	55%	67%	75%	74%
Mombasa	293	50%	77%	68%	62%	44%	63%	66%	46%	37%
Muranga	184	66%	79%	68%	64%	70%	63%	73%	68%	68%
Nairobi	868	48%	47%	63%	60%	43%	60%	61%	42%	43%
Nakuru	317	60%	89%	66%	53%	60%	55%	63%	64%	52%
Nandi	175	51%	76%	66%	48%	49%	49%	55%	55%	29%
Narok	129	55%	74%	63%	51%	53%	51%	62%	63%	53%
Nyamira	114	65%	77%	65%	58%	71%	62%	66%	71%	0
Nyandarua	116	64%	68%	69%	64%	59%	63%	72%	61%	0
Nyeri	245	59%	63%	75%	61%	53%	64%	62%	55%	0%
Samburu	71	50%	45%	73%	54%	25%	50%	72%	25%	44%
Siaya	155	63%	79%	75%	57%	61%	61%	73%	60%	56%
Taita Taveta	81	64%	84%	68%	62%	64%	66%	74%	56%	68%
Tana River	49	53%	51%	73%	52%	41%	57%	38%	37%	0
Tharaka Nithi	116	62%	88%	72%	59%	60%	59%	67%	64%	51%
Trans-Nzoia	137	43%	79%	69%	51%	32%	60%	58%	25%	41%
Turkana	136	48%	72%	59%	47%	35%	47%	60%	35%	0
Uasin Gishu	146	52%	74%	57%	49%	51%	52%	55%	52%	26%
Vihiga	87	63%	80%	67%	56%	62%	62%	67%	64%	53%
Wajir	110	51%	66%	45%	43%	59%	43%	76%	66%	0
West Pokot	84	44%	79%	57%	40%	45%	45%	48%	45%	0%
<b>Total</b>	<b>7995</b>	<b>57%</b>	<b>72%</b>	<b>65%</b>	<b>55%</b>	<b>53%</b>	<b>57%</b>	<b>65%</b>	<b>54%</b>	<b>43%</b>

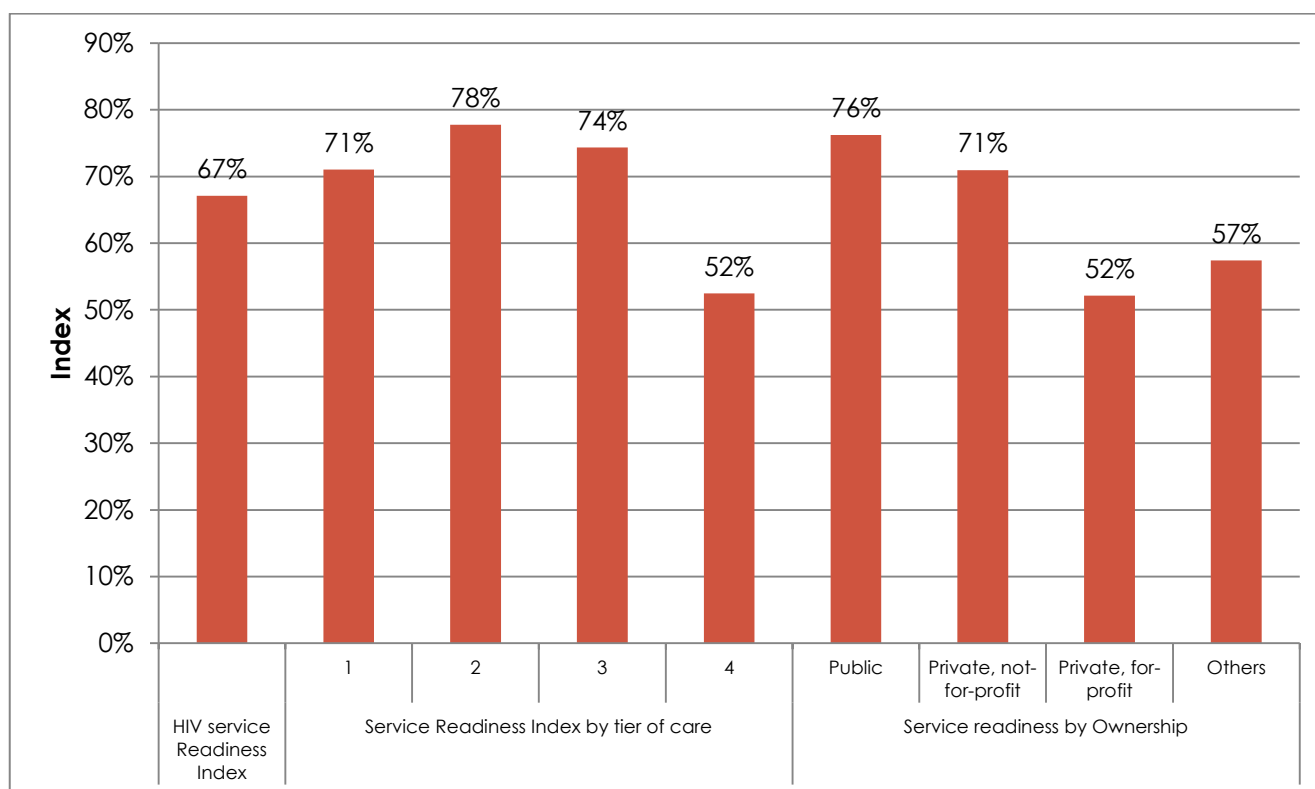
**Table 73: General Service readiness across Counties, by readiness domain**

County	Total number of facilities	General service readiness index	Service Readiness Domain			
			Basic amenities mean score	Basic equipment mean score	Standard precautions mean score	Essential medicines mean score
Baringo	169	52%	44%	65%	72%	29%
Bomet	111	62%	44%	81%	86%	35%
Bungoma	141	56%	45%	72%	72%	35%
Busia	80	58%	49%	72%	74%	37%
Elgeyo-Marakwet	116	51%	44%	57%	74%	30%
Embu	149	64%	52%	77%	82%	46%
Garissa	129	58%	45%	64%	74%	47%
Homa Bay	180	60%	43%	77%	78%	41%
Isiolo	41	64%	47%	90%	76%	44%
Kajiado	224	62%	52%	65%	81%	52%
Kakamega	229	57%	43%	76%	73%	36%
Kericho	174	58%	49%	66%	77%	40%
Kiambu	346	67%	58%	77%	77%	55%
Kilifi	199	58%	50%	68%	73%	40%
Kirinyaga	142	59%	52%	67%	77%	38%
Kisii	140	65%	51%	82%	81%	45%
Kisumu	154	66%	58%	78%	80%	50%
Kitui	313	57%	45%	71%	78%	34%
Kwale	95	65%	51%	82%	82%	44%
Laikipia	86	64%	49%	77%	82%	48%
Lamu	42	65%	55%	76%	77%	54%
Machakos	255	56%	44%	69%	69%	41%
Makueni	184	60%	47%	77%	78%	36%
Mandera	64	52%	39%	55%	65%	47%
Marsabit	89	56%	42%	71%	73%	38%
Meru	361	56%	49%	62%	73%	41%
Migori	169	61%	50%	79%	77%	37%
Mombasa	293	50%	44%	57%	59%	38%
Muranga	184	66%	56%	79%	85%	46%
Nairobi	868	48%	48%	48%	60%	35%
Nakuru	317	60%	50%	65%	74%	49%
Nandi	175	51%	41%	59%	73%	30%
Narok	129	55%	39%	63%	74%	42%
Nyamira	114	65%	49%	84%	83%	42%
Nyandarua	116	64%	55%	76%	78%	46%
Nyeri	245	59%	55%	65%	70%	46%
Samburu	71	50%	37%	61%	67%	33%
Siaya	155	63%	52%	77%	80%	42%
Taita Taveta	81	64%	64%	75%	79%	40%
Tana River	49	53%	29%	78%	71%	34%
Tharaka Nithi	116	62%	50%	76%	75%	47%
Trans-Nzoia	137	43%	35%	54%	56%	28%
Turkana	136	48%	30%	60%	64%	38%
Uasin Gishu	146	52%	38%	62%	68%	42%
Vihiga	87	63%	53%	76%	76%	46%
Wajir	110	51%	36%	59%	64%	43%
West Pokot	84	44%	29%	56%	64%	29%
<b>Facility type</b>	<b>7995</b>					
Hospital	607	72%	68%	77%	81%	63%
Health centre	1064	65%	56%	80%	82%	43%
Dispensary	3676	55%	41%	70%	75%	34%
Medical clinic/Stand-alone VCT	2346	51%	46%	54%	63%	41%
Maternity/Nursing home	301	71%	64%	75%	78%	66%
<b>Managing authority</b>						
Public	3978	57%	45%	73%	77%	33%
Private, not-for-profit	1327	65%	56%	72%	77%	54%
Private, for-profit	2538	54%	47%	57%	65%	45%
Others	152	43%	38%	45%	55%	33%
<b>Urban/Rural</b>						
Urban	2450	56%	52%	59%	67%	45%
Rural	4946	57%	45%	71%	75%	38%
<b>Total</b>	<b>7396</b>	<b>57%</b>	<b>47%</b>	<b>67%</b>	<b>73%</b>	<b>41%</b>

## 5.2 Readiness for provision of HIV / AIDS services

The general service readiness index for provision of HIV/AIDS services was 67% - only 67% of facilities are ready to provide the KEPH-defined HIV/AIDS services. Readiness is highest at the Primary Care facilities, and lowest for hospital services. Similarly, the public facilities are most ready to provide the HIV services, as compared to other facilities.

**Figure 26: HIV services readiness index and domain scores in Kenya (N=7995)**



Specific readiness for provision of HIV services, by County, are shown in the table overleaf.

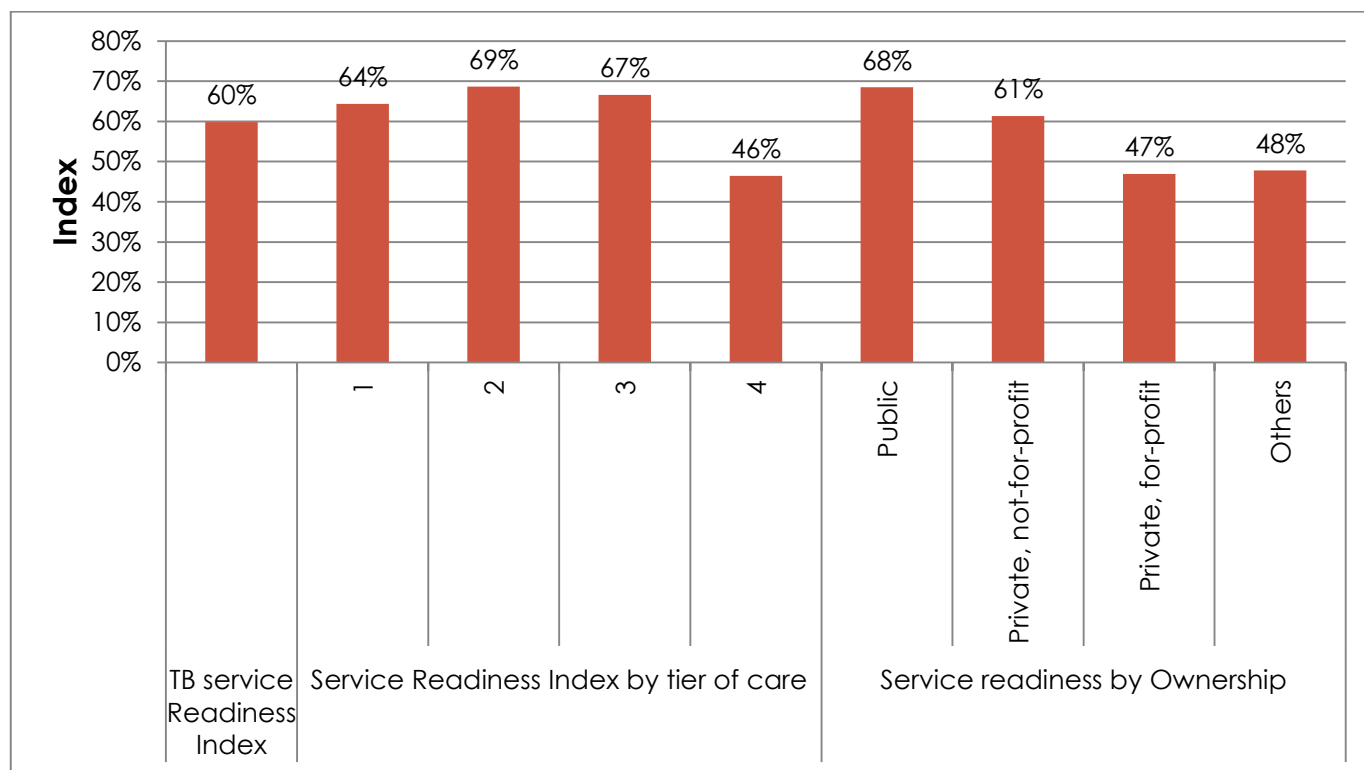
**Table 74: HIV services readiness, by County**

County	Number of Health facilities	HIV service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	68%	71%	84%	67%	57%	14%	71%	54%	20%
Bomet	111	78%	100%	82%	77%	50%	78%	79%	83%	50%
Bungoma	141	76%	95%	80%	78%	59%	81%	75%	56%	75%
Busia	80	77%	71%	80%	78%	71%	77%	70%	93%	50%
Elgeyo-Marakwet	116	73%	78%	85%	71%	38%	71%	96%	58%	0
Embu	149	73%	81%	83%	84%	54%	83%	78%	51%	0
Garissa	129	60%	83%	85%	63%	44%	73%	42%	45%	0%
Homa Bay	180	84%	100%	84%	86%	72%	88%	77%	82%	63%
Isiolo	41	76%	67%	75%	80%	67%	81%	70%	70%	50%
Kajiado	224	66%	55%	66%	77%	59%	79%	70%	55%	63%
Kakamega	229	80%	81%	81%	84%	75%	82%	92%	72%	80%
Kericho	174	76%	82%	75%	77%	67%	74%	79%	87%	83%
Kiambu	346	66%	62%	63%	70%	63%	69%	70%	62%	33%
Kilifi	199	62%	59%	70%	69%	56%	71%	65%	53%	69%
Kirinyaga	142	65%	57%	59%	71%	64%	70%	69%	59%	0
Kisii	140	90%	83%	100%	87%	93%	91%	98%	79%	100%
Kisumu	154	85%	88%	81%	90%	76%	91%	80%	71%	75%
Kitui	313	74%	68%	83%	76%	59%	77%	74%	59%	50%
Kwale	95	65%	63%	78%	66%	60%	68%	60%	59%	100%
Laikipia	86	69%	75%	75%	74%	53%	71%	82%	46%	75%
Lamu	42	60%	17%	75%	63%	62%	60%	60%	62%	0
Machakos	255	64%	81%	87%	69%	51%	74%	60%	53%	70%
Makueni	184	75%	83%	94%	79%	52%	83%	74%	55%	0%
Mandera	64	59%	100%	74%	46%	50%	64%	50%	47%	0%
Marsabit	89	61%	100%	73%	67%	33%	69%	75%	26%	100%
Meru	361	51%	71%	87%	65%	35%	73%	61%	36%	50%
Migori	169	83%	96%	89%	82%	76%	83%	79%	84%	100%
Mombasa	293	50%	53%	53%	69%	44%	63%	48%	46%	52%
Muranga	184	66%	90%	71%	72%	70%	77%	71%	65%	0%
Nairobi	868	48%	51%	63%	69%	41%	75%	56%	41%	45%
Nakuru	317	60%	85%	81%	77%	66%	79%	70%	72%	65%
Nandi	175	51%	90%	85%	72%	50%	73%	81%	54%	50%
Narok	129	55%	79%	90%	84%	75%	83%	85%	94%	67%
Nyamira	114	65%	100%	92%	86%	84%	91%	88%	83%	0
Nyandarua	116	64%	58%	73%	72%	58%	73%	74%	54%	0
Nyeri	245	59%	57%	78%	69%	58%	72%	56%	59%	25%
Samburu	71	50%	100%	92%	78%	43%	78%	88%	43%	100%
Siaya	155	63%	94%	88%	88%	75%	87%	89%	81%	63%
Taita Taveta	81	64%	83%	59%	68%	48%	66%	58%	42%	100%
Tana River	49	53%	67%	75%	53%	0%	53%	80%	25%	0
Tharaka Nithi	116	62%	79%	73%	77%	45%	74%	71%	55%	88%
Trans-Nzoia	137	43%	92%	67%	71%	56%	75%	72%	51%	100%
Turkana	136	48%	71%	67%	66%	70%	66%	70%	67%	0
Uasin Gishu	146	52%	85%	71%	73%	51%	77%	63%	56%	33%
Vihiga	87	63%	81%	72%	81%	70%	78%	72%	72%	50%
Wajir	110	51%	59%	76%	69%	40%	68%	80%	39%	0
West Pokot	84	44%	90%	50%	72%	56%	68%	80%	56%	50%
Total	7995	67%	71%	78%	74%	52%	76%	71%	52%	57%

### 5.3 Readiness for provision of TB services

The general service readiness index for provision of TB services is 60% - only 60% of facilities are ready to provide the KEPH-defined TB services. Readiness is highest at the Primary Care facilities, and lowest for hospital services. Similarly, the public facilities are most ready to provide TB services, as compared to other facilities.

**Figure 27: TB services readiness index and domain scores in Kenya (N=7995)**



TB services readiness varied significantly across Counties, as shown in the table overleaf.



**Table 75: Tuberculosis (TB) services readiness, by County**

County	Number of Health facilities	TB service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	60%	100%	95%	54%	43%	9%	37%	46%	0%
Bomet	111	70%	100%	79%	68%	33%	73%	58%	33%	0%
Bungoma	141	79%	91%	95%	79%	64%	84%	80%	74%	25%
Busia	80	75%	100%	80%	80%	33%	82%	67%	29%	100%
Elgeyo-Marakwet	116	50%	100%	65%	43%	0%	51%	54%	17%	
Embu	149	65%	75%	92%	78%	40%	87%	44%	43%	
Garissa	129	65%	89%	78%	73%	50%	77%	50%	51%	0%
Homa Bay	180	78%	100%	93%	80%	41%	86%	72%	36%	50%
Isiolo	41	62%	100%	67%	52%	83%	62%	50%	80%	100%
Kajiado	224	61%	58%	77%	73%	45%	76%	83%	42%	50%
Kakamega	229	69%	88%	92%	80%	41%	89%	54%	43%	40%
Kericho	174	73%	100%	83%	74%	44%	76%	67%	60%	67%
Kiambu	346	61%	58%	80%	66%	48%	82%	61%	49%	33%
Kilifi	199	52%	82%	93%	67%	34%	76%	65%	32%	31%
Kirinyaga	142	50%	36%	82%	69%	25%	82%	46%	24%	
Kisii	140	82%	100%	87%	83%	61%	91%	57%	65%	50%
Kisumu	154	77%	94%	91%	70%	67%	79%	73%	76%	75%
Kitui	313	61%	86%	78%	62%	41%	67%	52%	41%	0%
Kwale	95	82%	100%	89%	91%	58%	92%	80%	55%	100%
Laikipia	86	68%	75%	90%	71%	45%	75%	68%	50%	25%
Lamu	42	42%	67%	75%	48%	15%	48%	80%	15%	
Machakos	255	55%	100%	94%	64%	31%	71%	52%	37%	0%
Makueni	184	75%	100%	92%	77%	57%	81%	84%	56%	0%
Mandera	64	48%	100%	63%	15%	67%	43%	0%	61%	100%
Marsabit	89	49%	50%	53%	53%	39%	47%	79%	33%	100%
Meru	361	38%	69%	80%	54%	20%	66%	56%	19%	25%
Migori	169	73%	92%	93%	70%	59%	76%	67%	68%	100%
Mombasa	293	50%	81%	75%	54%	34%	67%	50%	36%	22%
Muranga	184	66%	90%	100%	79%	50%	86%	67%	58%	0%
Nairobi	868	48%	53%	72%	59%	34%	61%	55%	36%	62%
Nakuru	317	60%	88%	73%	53%	50%	63%	50%	50%	80%
Nandi	175	51%	100%	80%	49%	32%	55%	51%	35%	25%
Narok	129	55%	71%	92%	68%	58%	76%	62%	78%	33%
Nyamira	114	65%	100%	85%	88%	68%	88%	84%	65%	
Nyandarua	116	64%	46%	100%	80%	45%	88%	71%	43%	
Nyeri	245	59%	39%	95%	66%	35%	74%	58%	33%	0%
Samburu	71	50%	75%	100%	73%	27%	76%	75%	27%	100%
Siaya	155	63%	100%	89%	84%	55%	86%	74%	54%	75%
Taita Taveta	81	64%	100%	100%	85%	45%	89%	83%	44%	50%
Tana River	49	53%	33%	75%	53%	50%	58%	40%	25%	
Tharaka Nithi	116	62%	86%	91%	59%	14%	61%	65%	20%	75%
Trans-Nzoia	137	43%	100%	92%	78%	45%	87%	70%	40%	0%
Turkana	136	48%	100%	83%	75%	32%	73%	85%	33%	
Uasin Gishu	146	52%	69%	92%	60%	38%	68%	66%	39%	33%
Vihiga	87	63%	75%	94%	85%	54%	89%	69%	48%	100%
Wajir	110	51%	73%	70%	62%	36%	66%	60%	34%	
West Pokot	84	44%	80%	88%	54%	19%	63%	55%	19%	0%
Total	7995	60%	73%	84%	67%	39%	74%	62%	39%	44%

## 5.4 Readiness for provision of Malaria services

**TO BE COMPLETED**

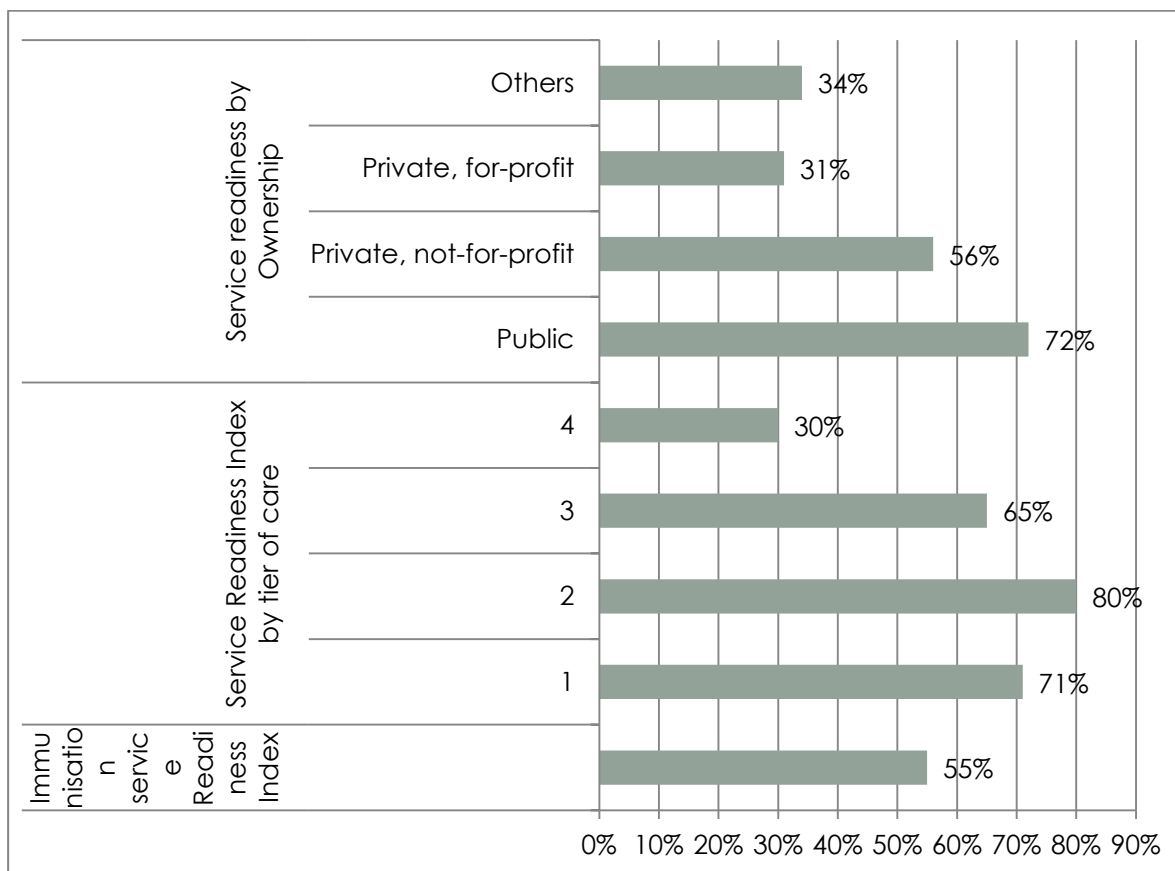
**Table 76: Malaria services readiness, by County (TO BE COMPLETED)**

County	Number of Health facilities	Malaria service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo										
Bomet										
Bungoma										
Busia										
Elgeyo-Marakwet										
Embu										
Garissa										
Homa Bay										
Isiolo										
Kajiado										
Kakamega										
Kericho										
Kiambu										
Kilifi										
Kirinyaga										
Kisii										
Kisumu										
Kitui										
Kwale										
Laikipia										
Lamu										
Machakos										
Makueni										
Mandera										
Marsabit										
Meru										
Migori										
Mombasa										
Muranga										
Nairobi										
Nakuru										
Nandi										
Narok										
Nyamira										
Nyandarua										
Nyeri										
Samburu										
Siaya										
Taita Taveta										
Tana River										
Tharaka Nithi										
Trans-Nzoia										
Turkana										
Uasin Gishu										
Vihiga										
Wajir										
West Pokot										
Total										

## 5.5 Readiness for provision of Immunization services

The general service readiness index for provision of immunization services is 64% - only 64% of facilities are ready to provide the KEPH-defined immunization services. Readiness is highest at the Primary Care and County hospital levels, and lowest at national referral facilities. Similarly, the public facilities are most ready to provide immunization services, as compared to other facilities.

**Figure 28: Immunization services readiness in Kenya**



Immunization services readiness varied significantly across Counties, as shown in the table below.

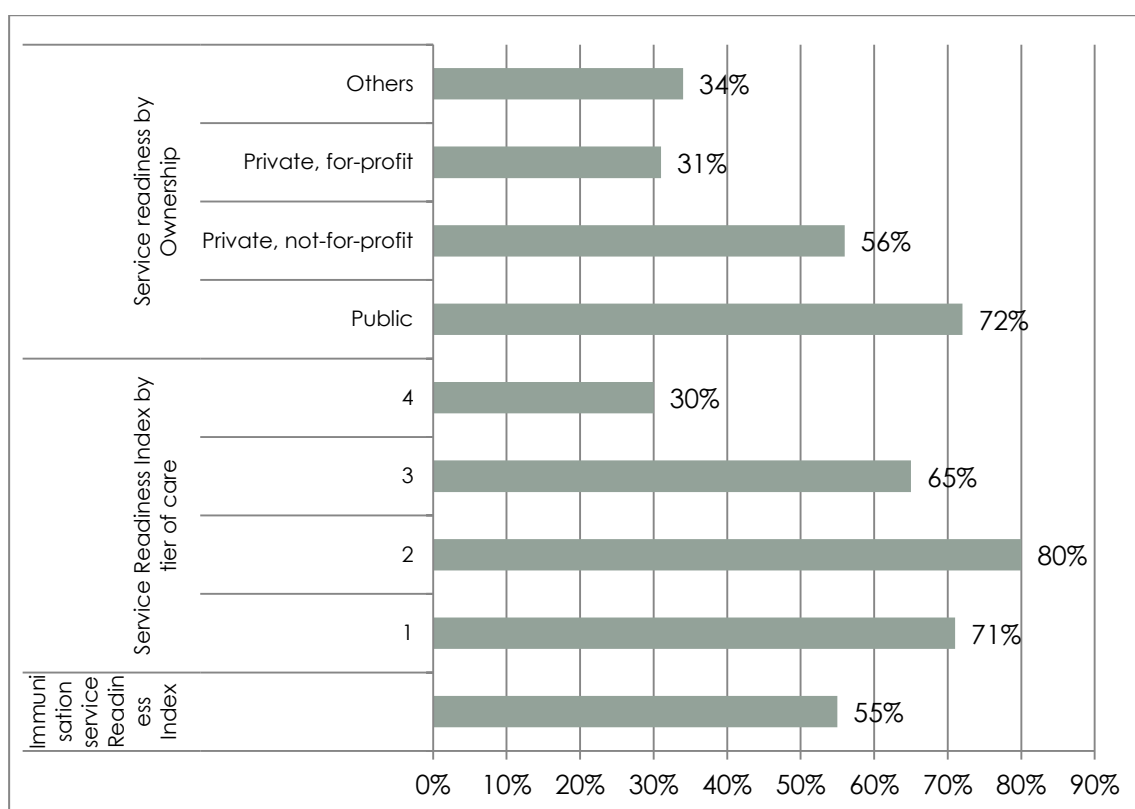
**Table 77: Immunization services readiness, by County**

County	Number of Health facilities	Immunisation service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	65%	100%	100%	63%	21%	10%	58%	31%	0%
Bomet	111	92%	100%	93%	92%	67%	93%	100%	67%	0%
Bungoma	141	75%	100%	95%	84%	33%	90%	80%	33%	25%
Busia	80	83%	100%	100%	88%	33%	93%	60%	43%	100%
Elgeyo-Marakwet	116	67%	100%	95%	59%	25%	68%	69%	33%	
Embu	149	65%	88%	100%	84%	25%	89%	53%	29%	
Garissa	129	56%	100%	87%	88%	15%	90%	67%	11%	0%
Homa Bay	180	91%	100%	100%	96%	59%	99%	81%	57%	75%
Isiolo	41	95%	100%	100%	96%	83%	100%	90%	80%	100%
Kajiado	224	62%	52%	77%	80%	44%	92%	66%	38%	50%
Kakamega	229	74%	100%	97%	94%	33%	98%	73%	34%	60%
Kericho	174	92%	100%	92%	98%	44%	97%	83%	67%	67%
Kiambu	346	60%	57%	78%	70%	44%	89%	67%	43%	0%
Kilifi	199	55%	82%	93%	87%	24%	90%	78%	23%	23%
Kirinyaga	142	44%	23%	91%	77%	2%	94%	41%	2%	
Kisii	140	94%	100%	97%	97%	78%	97%	95%	76%	100%
Kisumu	154	86%	94%	97%	91%	58%	91%	78%	76%	88%
Kitui	313	70%	93%	94%	77%	21%	83%	56%	19%	0%
Kwale	95	75%	100%	89%	93%	27%	97%	40%	27%	100%
Laikipia	86	72%	100%	90%	81%	30%	91%	58%	36%	0%
Lamu	42	65%	100%	100%	78%	23%	84%	80%	23%	
Machakos	255	63%	100%	97%	81%	32%	90%	55%	34%	0%
Makueni	184	74%	100%	96%	86%	26%	91%	71%	33%	0%
Mandera	64	52%	100%	84%	33%	33%	61%	0%	33%	0%
Marsabit	89	75%	100%	87%	84%	43%	88%	79%	43%	0%
Meru	361	41%	81%	87%	61%	20%	77%	53%	20%	0%
Migori	169	80%	100%	89%	88%	49%	88%	72%	60%	0%
Mombasa	293	50%	75%	70%	69%	16%	71%	43%	20%	17%
Muranga	184	66%	80%	94%	74%	30%	91%	39%	33%	0%
Nairobi	868	48%	49%	75%	62%	28%	76%	53%	29%	54%
Nakuru	317	60%	94%	87%	79%	56%	88%	59%	62%	80%
Nandi	175	51%	100%	85%	78%	23%	80%	71%	39%	25%
Narok	129	55%	100%	100%	82%	50%	84%	82%	78%	100%
Nyamira	114	65%	100%	97%	100%	80%	100%	96%	75%	
Nyandarua	116	64%	46%	100%	82%	33%	97%	53%	30%	
Nyeri	245	59%	39%	95%	78%	20%	87%	54%	20%	0%
Samburu	71	50%	75%	83%	71%	0%	71%	75%	0%	100%
Siaya	155	63%	100%	97%	95%	50%	97%	78%	38%	75%
Taita Taveta	81	64%	100%	100%	90%	27%	95%	50%	28%	50%
Tana River	49	53%	100%	100%	88%	100%	93%	80%	75%	
Tharaka Nithi	116	62%	100%	100%	59%	14%	75%	58%	17%	0%
Trans-Nzoia	137	43%	100%	100%	84%	33%	98%	74%	22%	0%
Turkana	136	48%	100%	94%	79%	8%	78%	93%	5%	
Uasin Gishu	146	52%	69%	96%	77%	51%	84%	72%	50%	33%
Vihiga	87	63%	88%	94%	88%	49%	91%	69%	48%	50%
Wajir	110	51%	82%	93%	72%	8%	79%	60%	6%	
West Pokot	84	44%	100%	100%	69%	19%	79%	68%	19%	0%
Total	7995	64%	75%	91%	80%	30%	87%	65%	30%	39%

## 5.6 Readiness for provision of Child health services

The general service readiness index for provision of immunization services is 55% - only 55% of facilities are ready to provide the KEPH-defined child health services. Readiness is highest at the Primary Care and Community levels, and lowest at national referral facilities. Similarly, the public facilities are most ready to provide immunization services, as compared to other facilities.

**Figure 29: Child health services readiness in Kenya**



Child health services readiness varied significantly across Counties, as shown in the preceding table.

**Table 78: Child health services readiness, by County**

County	Number of Health facilities	Child health service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	64%	96%	98%	61%	36%	10%	54%	40%	0%
Bomet	111	70%	100%	73%	68%	50%	70%	73%	58%	0%
Bungoma	141	67%	93%	90%	73%	32%	80%	70%	33%	25%
Busia	80	68%	100%	80%	68%	35%	75%	53%	39%	50%
Elgeyo-Marakwet	116	48%	92%	69%	40%	19%	48%	60%	29%	
Embu	149	52%	78%	92%	63%	25%	69%	43%	29%	
Garissa	129	51%	94%	77%	70%	21%	75%	67%	19%	0%
Homa Bay	180	80%	96%	87%	83%	50%	86%	77%	46%	56%
Isiolo	41	77%	92%	88%	77%	63%	83%	68%	70%	75%
Kajiado	224	57%	49%	72%	69%	43%	79%	60%	39%	50%
Kakamega	229	68%	91%	91%	78%	39%	84%	63%	42%	65%
Kericho	174	70%	93%	79%	71%	43%	74%	60%	60%	42%
Kiambu	346	55%	58%	68%	58%	45%	70%	57%	46%	25%
Kilifi	199	48%	77%	83%	76%	21%	81%	58%	20%	25%
Kirinyaga	142	41%	30%	80%	58%	16%	70%	41%	15%	
Kisii	140	78%	83%	87%	79%	60%	81%	79%	59%	75%
Kisumu	154	78%	94%	86%	77%	62%	79%	74%	77%	78%
Kitui	313	59%	88%	78%	62%	30%	67%	49%	30%	0%
Kwale	95	76%	94%	86%	89%	41%	92%	50%	43%	75%
Laikipia	86	60%	94%	83%	64%	31%	75%	47%	36%	0%
Lamu	42	58%	100%	94%	66%	23%	73%	75%	23%	
Machakos	255	51%	88%	73%	62%	30%	70%	43%	32%	0%
Makueni	184	67%	94%	84%	77%	28%	83%	57%	33%	0%
Mandera	64	53%	95%	76%	35%	42%	58%	0%	42%	25%
Marsabit	89	65%	100%	78%	69%	40%	72%	75%	40%	0%
Meru	361	33%	68%	77%	44%	17%	60%	42%	17%	6%
Migori	169	72%	92%	86%	74%	50%	78%	63%	58%	50%
Mombasa	293	50%	72%	63%	49%	16%	52%	34%	20%	17%
Muranga	184	66%	78%	84%	61%	36%	68%	55%	38%	0%
Nairobi	868	48%	46%	60%	49%	29%	58%	48%	30%	43%
Nakuru	317	60%	88%	76%	58%	42%	68%	46%	48%	63%
Nandi	175	51%	95%	78%	54%	23%	59%	53%	36%	25%
Narok	129	55%	89%	80%	62%	46%	65%	66%	69%	58%
Nyamira	114	65%	91%	87%	88%	75%	89%	85%	73%	
Nyandarua	116	64%	46%	83%	68%	40%	78%	53%	37%	
Nyeri	245	59%	41%	85%	62%	24%	71%	49%	24%	0%
Samburu	71	50%	75%	88%	65%	5%	68%	66%	5%	75%
Siaya	155	63%	94%	92%	82%	51%	86%	75%	44%	69%
Taita Taveta	81	64%	100%	84%	78%	34%	82%	50%	35%	50%
Tana River	49	53%	83%	88%	68%	63%	73%	65%	50%	
Tharaka Nithi	116	62%	89%	82%	52%	20%	62%	53%	26%	6%
Trans-Nzoia	137	43%	96%	94%	69%	30%	81%	62%	23%	0%
Turkana	136	48%	93%	81%	66%	17%	64%	82%	18%	
Uasin Gishu	146	52%	75%	78%	58%	41%	64%	59%	44%	17%
Vihiga	87	63%	78%	89%	74%	46%	80%	64%	45%	38%
Wajir	110	51%	84%	86%	63%	15%	75%	40%	13%	
West Pokot	84	44%	85%	94%	53%	13%	64%	51%	13%	0%
Total	7995	55%	71%	80%	65%	30%	72%	56%	31%	34%

## 5.7 Readiness for provision of Maternal health services

TO BE COMPLETED.



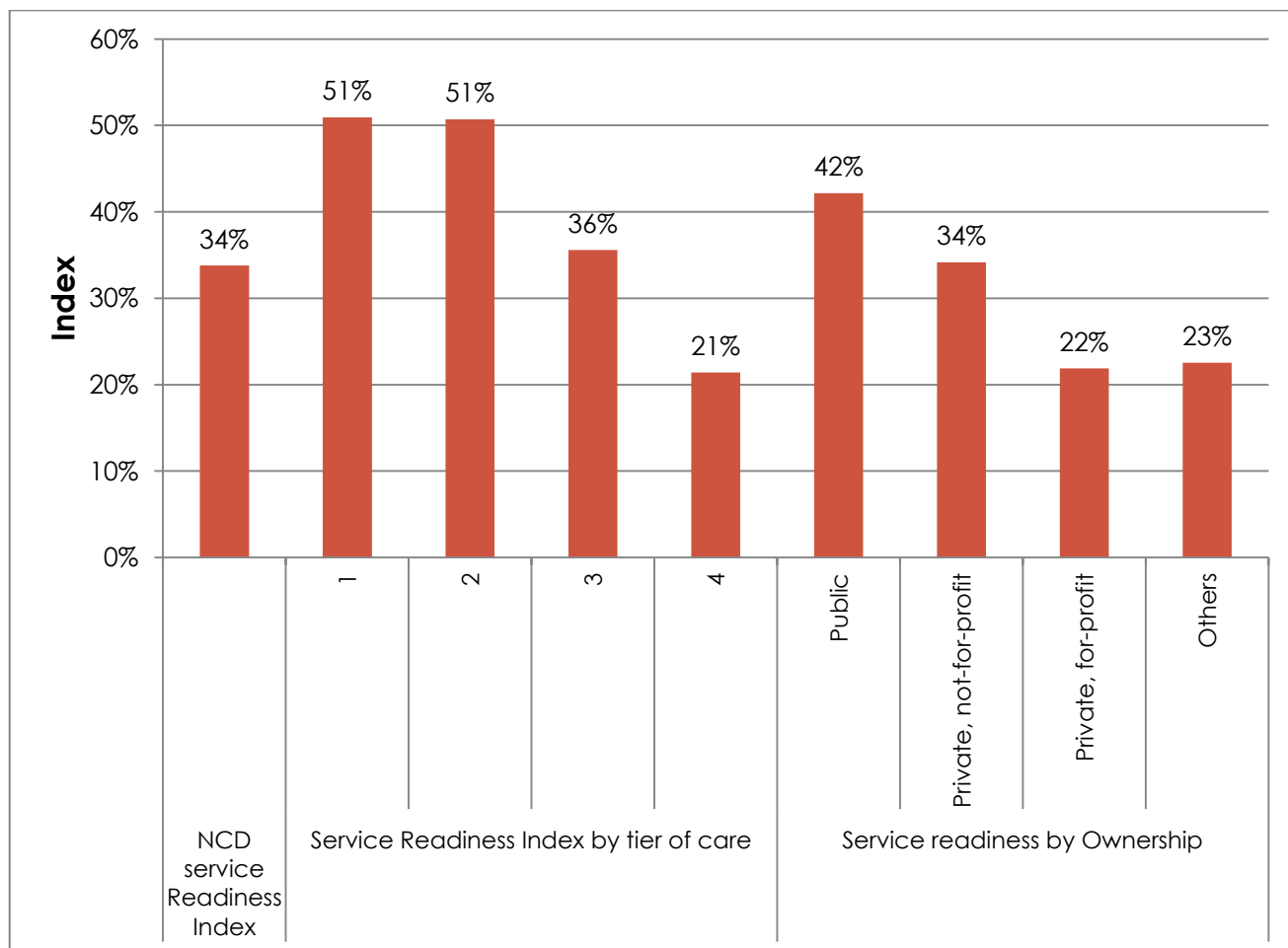
**Table 79: Maternal health services readiness, by County (TO BE COMPLETED)**

County	Number of Health facilities	Maternal service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo										
Bomet										
Bungoma										
Busia										
Elgeyo-Marakwet										
Embu										
Garissa										
Homa Bay										
Isiolo										
Kajiado										
Kakamega										
Kericho										
Kiambu										
Kilifi										
Kirinyaga										
Kisii										
Kisumu										
Kitui										
Kwale										
Laikipia										
Lamu										
Machakos										
Makueni										
Mandera										
Marsabit										
Meru										
Migori										
Mombasa										
Muranga										
Nairobi										
Nakuru										
Nandi										
Narok										
Nyamira										
Nyandarua										
Nyeri										
Samburu										
Siaya										
Taita Taveta										
Tana River										
Tharaka Nithi										
Trans-Nzoia										
Turkana										
Uasin Gishu										
Vihiga										
Wajir										
West Pokot										
Total										

## 5.8 Readiness for provision of NCD services

The general service readiness index for provision of NCD services is 34% - only 34% of facilities are ready to provide the KEPH-defined NCD services. Readiness is highest at the Primary Care facilities, and lowest at national referral facilities. Similarly, the public facilities are most ready to provide NCD services, as compared to other facilities.

Figure 30: NCD services readiness in Kenya



The same pattern was replicated in most of the Counties across the Country, as shown in the table below

**Table 80: NCD services readiness, by County**

County	Number of Health facilities	NCD service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo	169	24%	71%	38%	19%	29%	5%	19%	33%	0%
Bomet	111	33%	93%	40%	29%	33%	33%	36%	44%	0%
Bungoma	141	53%	73%	73%	56%	23%	63%	50%	30%	17%
Busia	80	53%	81%	51%	55%	31%	58%	40%	33%	100%
Elgeyo-Marakwet	116	16%	48%	17%	13%	0%	15%	31%	0%	0%
Embu	149	28%	54%	42%	32%	16%	36%	25%	16%	0%
Garissa	129	43%	78%	62%	46%	29%	52%	56%	32%	0%
Homa Bay	180	65%	79%	75%	67%	37%	69%	64%	36%	42%
Isiolo	41	25%	56%	33%	17%	39%	31%	17%	20%	0%
Kajiado	224	28%	34%	40%	22%	25%	27%	40%	24%	8%
Kakamega	229	49%	71%	68%	55%	30%	62%	46%	31%	27%
Kericho	174	37%	76%	22%	38%	15%	39%	35%	22%	33%
Kiambu	346	38%	38%	63%	37%	31%	55%	43%	27%	22%
Kilifi	199	28%	30%	49%	38%	17%	42%	39%	14%	21%
Kirinyaga	142	22%	17%	48%	25%	14%	35%	14%	14%	0%
Kisii	140	61%	87%	74%	56%	39%	66%	52%	45%	33%
Kisumu	154	63%	78%	72%	58%	54%	62%	59%	67%	79%
Kitui	313	26%	40%	39%	26%	16%	29%	29%	14%	0%
Kwale	95	46%	75%	52%	53%	26%	54%	37%	27%	100%
Laikipia	86	35%	75%	50%	34%	22%	37%	40%	31%	0%
Lamu	42	16%	0%	0%	25%	10%	16%	33%	10%	0%
Machakos	255	27%	83%	53%	28%	15%	37%	22%	16%	0%
Makueni	184	38%	50%	50%	43%	19%	45%	45%	16%	0%
Mandera	64	18%	60%	21%	14%	11%	21%	33%	11%	0%
Marsabit	89	13%	33%	13%	12%	13%	12%	17%	13%	33%
Meru	361	16%	41%	37%	17%	10%	28%	15%	10%	25%
Migori	169	59%	85%	74%	58%	39%	64%	56%	40%	0%
Mombasa	293	50%	52%	40%	30%	17%	38%	20%	19%	12%
Muranga	184	66%	77%	69%	48%	35%	55%	42%	38%	33%
Nairobi	868	48%	37%	39%	35%	21%	43%	26%	23%	27%
Nakuru	317	60%	55%	37%	28%	22%	39%	22%	23%	17%
Nandi	175	51%	60%	38%	26%	14%	30%	20%	23%	25%
Narok	129	55%	48%	53%	31%	25%	36%	38%	26%	11%
Nyamira	114	65%	88%	68%	71%	41%	73%	65%	35%	0%
Nyandarua	116	64%	21%	53%	39%	22%	46%	27%	20%	0%
Nyeri	245	59%	34%	67%	37%	27%	49%	28%	25%	0%
Samburu	71	50%	50%	44%	29%	7%	29%	42%	7%	0%
Siaya	155	63%	88%	74%	59%	36%	66%	48%	38%	50%
Taita Taveta	81	64%	78%	25%	35%	17%	30%	61%	17%	50%
Tana River	49	53%	33%	50%	31%	50%	37%	13%	25%	0%
Tharaka Nithi	116	62%	43%	42%	13%	2%	20%	18%	3%	8%
Trans-Nzoia	137	43%	56%	64%	55%	29%	60%	38%	28%	0%
Turkana	136	48%	52%	26%	30%	15%	29%	37%	13%	0%
Uasin Gishu	146	52%	54%	39%	33%	17%	35%	34%	22%	33%
Vihiga	87	63%	46%	57%	46%	38%	52%	31%	44%	17%
Wajir	110	51%	39%	59%	29%	17%	42%	27%	15%	0%
West Pokot	84	44%	73%	42%	19%	19%	26%	24%	19%	0%
Total	7995	34%	51%	51%	36%	21%	42%	34%	22%	23%

## 5.9 Readiness for provision of Surgical services

**TO BE COMPLETED**

**Table 81: Surgical services readiness, by County (TO BE COMPLETED)**

County	Number of Health facilities	Surgical service Readiness Index	Service Readiness Index by tier of care				Service readiness by Ownership			
			1	2	3	4	Public	Private, not-for-profit	Private, for-profit	Others
Baringo										
Bomet										
Bungoma										
Busia										
Elgeyo-Marakwet										
Embu										
Garissa										
Homa Bay										
Isiolo										
Kajiado										
Kakamega										
Kericho										
Kiambu										
Kilifi										
Kirinyaga										
Kisii										
Kisumu										
Kitui										
Kwale										
Laikipia										
Lamu										
Machakos										
Makueni										
Mandera										
Marsabit										
Meru										
Migori										
Mombasa										
Muranga										
Nairobi										
Nakuru										
Nandi										
Narok										
Nyamira										
Nyandarua										
Nyeri										
Samburu										
Siaya										
Taita Taveta										
Tana River										
Tharaka Nithi										
Trans-Nzoia										
Turkana										
Uasin Gishu										
Vihiga										
Wajir										
West Pokot										
Total										

## 5.10 Health leadership readiness

The Ministry of Health and the Health sector entirely has their functions defined according to the mandates as defined by Government and the Coordination of service delivery as defined through a Sector wide approach, the Kenya Health SWAp (KHSWAp) which brings together all Health Stakeholders and managed through a partnership instrument: the Code of Conduct. The Code works through coordination mechanisms at all the management levels of the system that bring together all recognized health stakeholders to discuss and agree on sector focus. The national level has the Joint Interagency Coordinating Committee (JIACC), Health Sector Coordinating Committee (HSCC), and Interagency Coordinating Committee's (ICC's). Counties and District levels have respective stakeholders' forums that are proposed in the Kenya Health Sector Strategic Plan (KHSSP) III 2012- 2017.

Governance structures and systems also exist, through boards / Health facility committees at the respective service delivery levels (Dispensaries, health centres, hospitals, and districts). A common framework for planning and implementation is in place, with decentralized sector wide annual work plans, and monitoring processes in place and applied. However, capacity gaps still exist in leadership and governance. Harmonization of health laws around an updated Health Act is not completed. Leadership and Management skills mix is still patchy, particularly at the sub national levels. Incomplete adoption of partnership processes at some levels of the sector implies some key partners are not appropriately engaged when required. Additionally, key health related sectors are not fully engaged by the Health Ministry, to allow for comprehensive addressing of the health agenda in the country.

SARAM sought to assess the health leadership in Kenya by looking at health service provision points' organizational capacity, stewardship and leadership readiness in delivering health services. Within each of these areas of leadership, specific variables were assessed across the facilities, to provide a picture of the status in each facility.

This section, therefore, presents the information based on these four dimensions of leadership:

- Service delivery organization readiness: How well the services are able to organize delivery of health services
- Health stewardship readiness: The management capacities that exist to steward the implementation of the health agenda in the Country
- Health partnership readiness: The capacity that exists to harness the role and input of different health actors at all levels
- Health governance readiness: The capacity to take advantage of the legal and regulatory framework, to improve on the provision of services

This section presents the key findings under each of these topics.

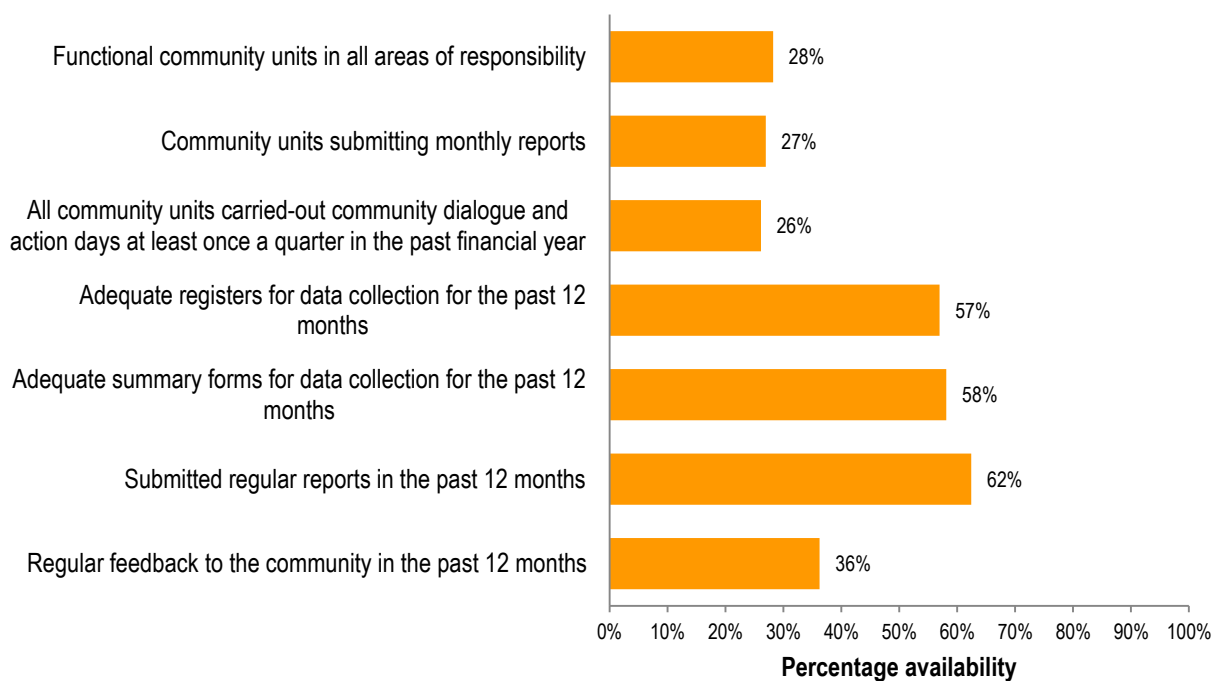
### 5.10.1 Service delivery organization readiness

Health service delivery takes place in community units at the lowest level through dispensaries and health centers through hospitals. Reporting is necessary to help monitor progress and evaluate coverage. Registers, summary and reporting tools are needed to capture data and report information in standard formats. Community units are an extension of facilities. They offer preventive health services and therefore need to report their performance to the community and to national level through the link facility. Functional units are those that hold dialog and action days, must have trained CHEWs, and trained CHC. The functional community units in the country were covering 28% and 27% of the units submit their monthly reports. The service readiness considered the following;

- Adequate registers for data collection for the past 12 months which was 57%
- Adequate summary forms for data collection for the past 12 months available in 58% of the units
- Submitted regular reports in the past 12 months constituted 62%
- Regular feedback to the community in the past 12 months was only 36% while 26% dialoged and had action days.

The readiness was assessed in the areas detailed in figure overleaf: in terms of service organisation, Public health facilities were more advantaged and had better readiness capacity. Much readiness was seen in primary care facilities Health centres in a modesty unlike the hospitals and clinics.

**Figure 31: Organization of service delivery readiness (N=7396)**



The pattern, by County, is shown overleaf.

**Table 82: Organization of service delivery readiness, by County**

County	Total number of facilities	Functional community units in all areas of responsibility	Community units submitting monthly reports	All community units carried-out community dialogue and action days at least once a quarter in the past financial year	Adequate registers for data collection for the past 12 months	Adequate summary forms for data collection for the past 12 months	Submitted regular reports in the past 12 months	Regular feedback to the community in the past 12 months
Baringo	169	19%	19%	19%	59%	61%	56%	19%
Bomet	111	31%	23%	25%	81%	74%	92%	50%
Bungoma	141	53%	54%	48%	67%	68%	73%	48%
Busia	80	75%	73%	66%	77%	78%	89%	58%
Elgeyo-Marakwet	116	14%	20%	20%	64%	72%	76%	18%
Embu	149	22%	19%	21%	62%	68%	69%	33%
Garissa	129	17%	14%	8%	53%	52%	50%	28%
Homa Bay	180	75%	72%	66%	80%	74%	83%	77%
Isiolo	41	43%	36%	29%	79%	93%	90%	48%
Kajiado	224	24%	20%	22%	52%	53%	54%	33%
Kakamega	229	42%	44%	45%	71%	69%	74%	46%
Kericho	174	19%	14%	22%	67%	63%	76%	40%
Kiambu	346	22%	21%	20%	53%	55%	61%	29%
Kilifi	199	23%	25%	20%	55%	61%	68%	34%
Kirinyaga	142	27%	28%	27%	46%	51%	54%	29%
Kisii	140	46%	46%	43%	66%	69%	77%	56%
Kisumu	154	71%	65%	61%	74%	77%	84%	71%
Kitui	313	25%	21%	20%	60%	62%	72%	43%
Kwale	95	44%	44%	39%	79%	85%	87%	51%
Laikipia	86	17%	13%	15%	63%	61%	70%	28%
Lamu	42	37%	23%	21%	72%	67%	72%	47%
Machakos	255	17%	16%	17%	61%	63%	65%	32%
Makueni	184	38%	33%	30%	65%	67%	81%	52%
Mandera	64	6%	6%	7%	30%	39%	39%	19%
Marsabit	89	11%	11%	4%	51%	58%	60%	24%
Meru	361	10%	9%	9%	45%	44%	46%	20%
Migori	169	48%	48%	48%	67%	70%	71%	59%
Mombasa	293	12%	12%	13%	43%	44%	40%	18%
Muranga	184	37%	0%	34%	71%	72%	76%	46%
Nairobi	868	15%	16%	16%	29%	29%	31%	19%
Nakuru	317	27%	29%	28%	64%	61%	71%	36%
Nandi	175	18%	16%	19%	56%	59%	64%	36%
Narok	129	32%	29%	33%	65%	67%	74%	41%
Nyamira	114	54%	56%	58%	76%	75%	82%	68%
Nyandarua	116	39%	37%	33%	57%	58%	63%	41%
Nyeri	245	16%	19%	15%	48%	50%	52%	25%
Samburu	71	6%	6%	8%	53%	52%	62%	29%
Siaya	155	75%	70%	71%	73%	70%	82%	70%
Taita Taveta	81	33%	35%	33%	70%	73%	70%	47%
Tana River	49	29%	37%	31%	78%	76%	78%	59%
Tharaka Nithi	116	19%	22%	15%	55%	55%	56%	15%
Trans-Nzoia	137	28%	25%	26%	52%	54%	52%	32%
Turkana	136	32%	23%	15%	51%	52%	67%	44%
Uasin Gishu	146	38%	32%	32%	62%	66%	66%	40%
Vihiga	87	37%	41%	44%	79%	82%	85%	54%
Wajir	110	26%	24%	27%	57%	59%	58%	31%
West Pokot	84	36%	20%	20%	54%	59%	67%	36%
<b>Facility type</b>								
Hospital	607	36%	35%	35%	64%	63%	67%	39%
Health centre	1064	53%	51%	49%	77%	78%	84%	57%
Dispensary	3676	35%	33%	32%	68%	69%	75%	46%
Medical clinic/Stand-alone VCT	2346	7%	7%	7%	32%	33%	34%	14%
Maternity/Nursing home	301	17%	18%	18%	53%	55%	57%	27%
<b>Managing authority</b>								
Public	3978	45%	42%	41%	73%	75%	81%	52%
Private, not-for-profit	1327	24%	23%	24%	62%	63%	67%	37%
Private, for-profit	2538	6%	7%	6%	32%	32%	34%	13%
Others	152	16%	15%	16%	35%	38%	40%	24%
<b>Urban/Rural</b>								
Urban	2450	15%	16%	15%	40%	41%	42%	21%
Rural	4946	35%	33%	32%	66%	67%	73%	44%
<b>Total</b>	<b>7396</b>	<b>28%</b>	<b>27%</b>	<b>26%</b>	<b>57%</b>	<b>58%</b>	<b>62%</b>	<b>36%</b>



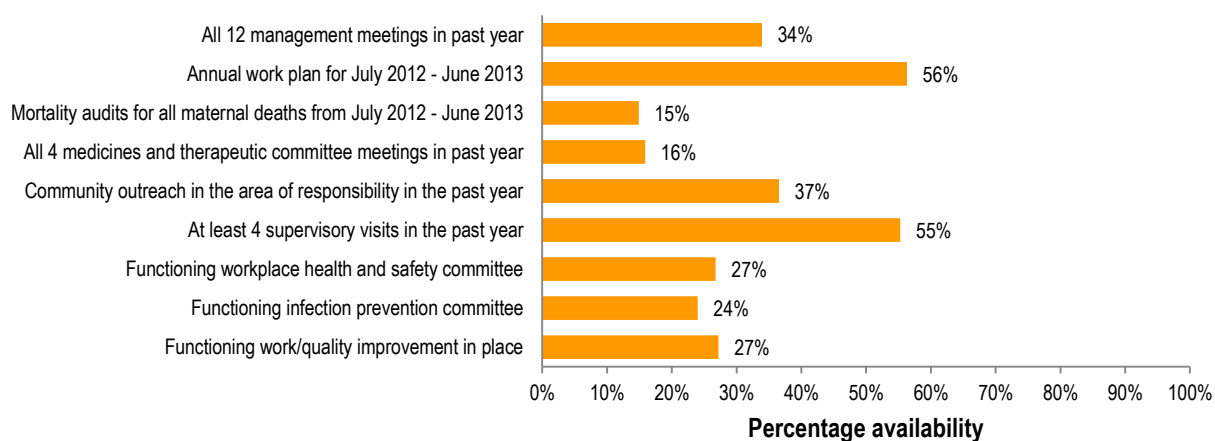
### 5.10.2 Health stewardship readiness

Stewardship relates to the management function of the Government, through the Ministry of Health and is built around implementation of the mandate of the Ministry responsible for health. This requires strong government stewardship for proper regulation and multi-sector collaboration; to optimize strategic actions and investments by all actors towards stated health goals and targets; while ensuring that public health considerations are addressed in all aspects including Health products and technologies.

Hospitals and health centres had higher health stewardship readiness compared to dispensaries, nursing homes and clinics. Public health facilities had good stewardship readiness followed by private not-for-profit but was poorly stated in private for-profit health facilities. This was more pronounced in rural areas than in urban health facilities. Specifically, status against key stewardship variables is as follows:

- **All 12 management meetings in past year:** Nationally, only 34% of the facility/community units' management teams had all the 12 meeting in the year July 2012 to June 2013.
- **Annual work plan for July 2012 -June 2013:** The SARAM exercise indicates that 56% of the facilities confirmed having these important performance monitoring documents. This is depicted in the figure 44 below. Thus, the figure 44 indicates that 44% of the facilities operate without performance benchmarks, monitoring of progress and evaluation of effectiveness of the interventions within the year. It is therefore impossible to track interventions in a consistent manner.
- **Mortality audits for all maternal deaths from July 2012 - June 2013:** Only 15% of all the facilities in the country carried out mortality audits for all maternal deaths that occurred.
- **All 4 medicines and therapeutic committee (MTC) meetings in past year:** A paltry 16% of the facilities held all the four (quarterly) MTC meetings- an indication of weak health stewardship.
- **Community outreach in the area of responsibility in the past year:** It was determined that 37% of facilities carried out disease prevention and health promotion activities in their areas of responsibility.
- **At least 4 supervisory visits in the past year:** 55% of the facilities received supportive supervision from higher levels.
- **Functioning workplace health and safety committee, infection prevention, and work quality improvement committee:** 27% of the facilities in the country had functional safety committees while 24% had functional infection prevention committees. Facilities that had functional work quality improvement team were at 27%. On average the facilities with functional committees in the country was below 30 %.

**Figure 32: Percentage of facilities with health stewardship capacity (N=7396)**



The trends in Counties are shown in the table overleaf.

**Table 83: Health stewardship readiness, by County**

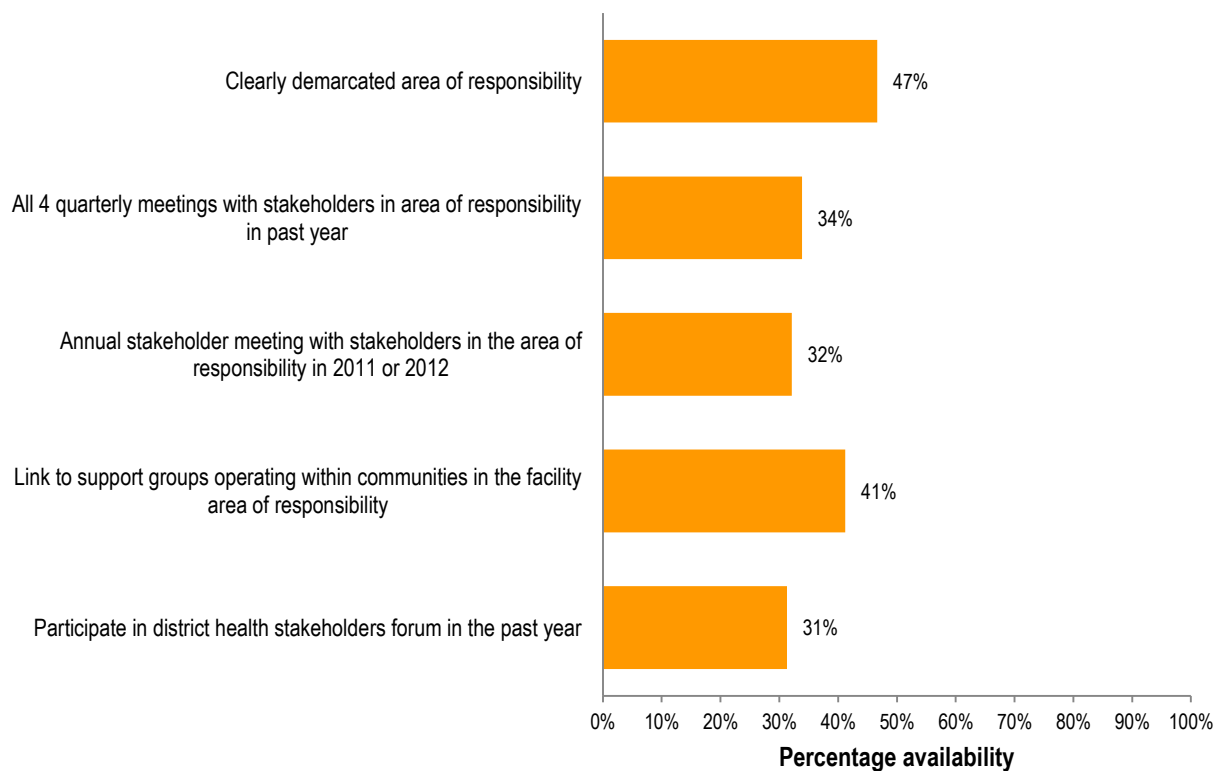
County	Total number of facilities	All 12 management meetings in past year	Annual work plan for July 2012 - June 2013	Mortality audits for all maternal deaths from July 2012 - June 2013	All 4 medicines and therapeutic committee meetings in past year	Community outreach in the area of responsibility in the past year	At least 4 supervisory visits in the past year	Functioning workplace health and safety committee	Functioning infection prevention committee	Functioning work/quality improvement in place
Baringo	169	30%	68%	11%	14%	30%	39%	26%	19%	19%
Bomet	111	50%	91%	18%	24%	33%	82%	39%	29%	36%
Bungoma	141	42%	66%	15%	17%	56%	71%	22%	26%	30%
Busia	80	40%	80%	14%	17%	71%	76%	23%	16%	18%
Elgeyo-Marakwet	116	42%	76%	7%	15%	20%	66%	31%	18%	23%
Embu	149	27%	63%	11%	12%	21%	58%	19%	11%	19%
Garissa	129	35%	53%	10%	9%	41%	52%	20%	14%	20%
Homa Bay	180	64%	80%	33%	42%	75%	82%	54%	57%	55%
Isiolo	41	29%	74%	17%	17%	57%	83%	14%	12%	10%
Kajiado	224	28%	46%	15%	11%	40%	44%	27%	27%	31%
Kakamega	229	36%	70%	19%	19%	55%	72%	25%	24%	31%
Kericho	174	43%	76%	21%	21%	36%	56%	36%	26%	29%
Kiambu	346	26%	42%	16%	14%	19%	49%	25%	24%	29%
Kilifi	199	33%	48%	14%	15%	43%	56%	26%	31%	26%
Kirinyaga	142	25%	48%	8%	18%	23%	42%	21%	21%	25%
Kisii	140	62%	86%	31%	35%	72%	87%	51%	65%	51%
Kisumu	154	55%	78%	33%	38%	72%	82%	64%	63%	65%
Kitui	313	46%	70%	14%	19%	33%	67%	31%	21%	26%
Kwale	95	45%	75%	18%	21%	73%	78%	25%	32%	38%
Laikipia	86	32%	70%	8%	12%	45%	67%	22%	20%	16%
Lamu	42	28%	60%	19%	7%	51%	74%	23%	49%	35%
Machakos	255	26%	61%	11%	13%	22%	57%	26%	18%	22%
Makueni	184	39%	73%	20%	20%	55%	75%	36%	25%	40%
Mandera	64	29%	42%	6%	3%	39%	46%	9%	4%	14%
Marsabit	89	34%	57%	12%	6%	43%	59%	15%	10%	12%
Meru	361	17%	36%	8%	7%	11%	35%	14%	11%	13%
Migori	169	64%	78%	39%	35%	71%	77%	53%	50%	57%
Mombasa	293	14%	18%	8%	10%	13%	29%	14%	15%	15%
Muranga	184	30%	0%	9%	13%	22%	68%	26%	22%	29%
Nairobi	868	22%	29%	12%	12%	20%	29%	19%	20%	23%
Nakuru	317	29%	58%	12%	13%	37%	43%	28%	21%	27%
Nandi	175	43%	59%	12%	17%	33%	57%	33%	25%	34%
Narok	129	39%	72%	27%	18%	44%	57%	34%	27%	33%
Nyamira	114	64%	87%	39%	36%	72%	86%	51%	43%	46%
Nyandarua	116	35%	57%	16%	16%	37%	56%	30%	29%	33%
Nyeri	245	23%	40%	6%	8%	13%	42%	11%	12%	15%
Samburu	71	36%	62%	4%	13%	42%	52%	27%	8%	22%
Siaya	155	69%	84%	35%	31%	78%	87%	45%	53%	50%
Taita Taveta	81	28%	73%	11%	15%	42%	57%	20%	14%	12%
Tana River	49	61%	86%	8%	8%	73%	67%	29%	20%	14%
Tharaka Nithi	116	23%	50%	13%	9%	16%	64%	19%	15%	12%
Trans-Nzoia	137	22%	47%	7%	10%	36%	44%	13%	20%	23%
Turkana	136	35%	54%	18%	21%	47%	65%	36%	27%	28%
Uasin Gishu	146	38%	62%	15%	12%	39%	55%	31%	22%	32%
Vihiga	87	32%	70%	11%	13%	49%	79%	21%	21%	22%
Wajir	110	31%	56%	5%	4%	51%	58%	12%	7%	10%
West Pokot	84	31%	49%	11%	10%	36%	50%	18%	11%	14%
<b>Facility type</b>										
Hospital	607	54%	65%	44%	35%	47%	61%	42%	53%	53%
Health centre	1064	52%	81%	25%	23%	63%	79%	38%	38%	40%
Dispensary	3676	40%	73%	13%	17%	45%	68%	31%	24%	28%
Medical clinic/ Stand-alone VCT	2346	12%	21%	5%	6%	12%	26%	12%	11%	13%
Maternity/Nursing home	301	35%	44%	30%	21%	25%	50%	31%	33%	38%
<b>Managing authority</b>										
Public	3978	48%	81%	19%	21%	53%	74%	33%	30%	32%
Private, not-for-profit	1327	36%	56%	18%	18%	42%	59%	36%	31%	37%
Private, for-profit	2538	12%	20%	8%	7%	10%	27%	13%	12%	15%
Others	152	21%	32%	5%	8%	24%	31%	21%	18%	19%
<b>Urban/Rural</b>										
Urban	2450	24%	34%	13%	14%	21%	36%	22%	22%	25%
Rural	4946	39%	68%	16%	17%	44%	65%	29%	25%	29%
<b>Total</b>	<b>7396</b>	<b>34%</b>	<b>56%</b>	<b>15%</b>	<b>16%</b>	<b>37%</b>	<b>55%</b>	<b>27%</b>	<b>24%</b>	<b>27%</b>

### 5.10.3 Health partnership readiness

Health partnership relates to the inter-relations and coordination of different actors working towards the same health goals, and is built around the adherence to the sector partnership Code of Conduct. Health partnerships efforts were below 50% country-wide. For partnerships to thrive there needs to be clarity of the geographical region demarcated for the facility to provide the service (service area of responsibility). SARAM sought to find out the proportion of facilities that have a clearly demarcated area of responsibility and found out that 47% of the facilities had areas in which they planned and provided disease prevention and health promotion activities.

The provision of quality healthcare services calls for partnerships and management of stakeholders. Facilities are expected to hold quarterly meetings. In total four meetings are expected in a year. The proportion of facilities that held all 4 quarterly meetings with stakeholders in area of responsibility in past year was 34%. As planning units facilities, with all the stakeholders are required to review the previous year's performance report and preview the annual plan for the coming year. It was noted that in the country 32% of the facilities held their annual stakeholder meetings for the period 2011-2012. The link to the support groups operating within communities in the facility area of responsibility was 41%, while the proportion of the facilities participating in the stakeholder's forum was at 31% in the past year.

**Figure 33: Percentage of facilities with health partnership capacity (N=7396)**



The pattern, by County, is shown in table overleaf.

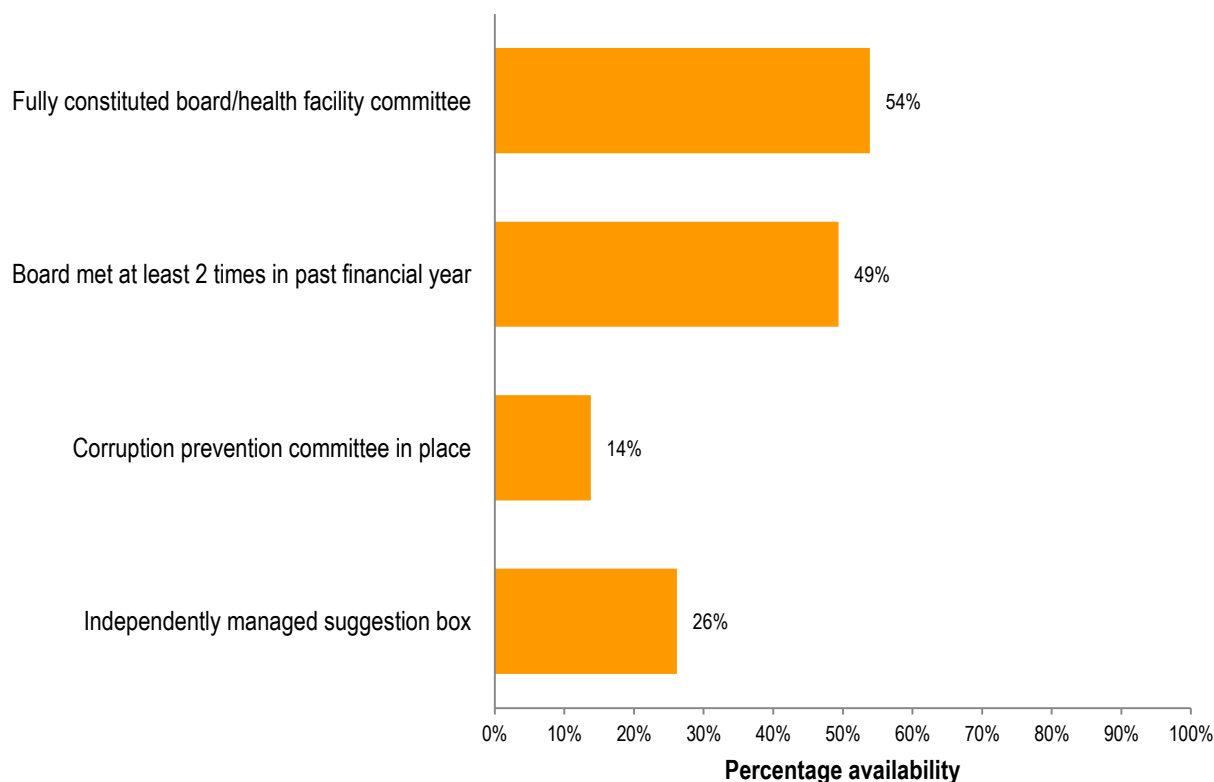
**Table 84: Health partnership readiness, by County**

County	Total number of facilities	Clearly demarcated area of responsibility	All 4 quarterly meetings with stakeholders in area of responsibility in past year	Annual stakeholder meeting with stakeholders in the area of responsibility in 2011 or 2012	Link to support groups operating within communities in the facility area of responsibility	Participate in district health stakeholders forum in the past year	Partners directly supporting/working
Baringo	169	57%	33%	26%	40%	15%	26%
Bomet	111	80%	51%	49%	58%	36%	70%
Bungoma	141	68%	45%	37%	57%	44%	64%
Busia	80	73%	43%	45%	57%	66%	80%
Elgeyo-Marakwet	116	46%	33%	44%	33%	36%	24%
Embu	149	37%	31%	27%	37%	21%	23%
Garissa	129	41%	29%	24%	36%	23%	25%
Homa Bay	180	73%	64%	64%	76%	64%	74%
Isiolo	41	43%	21%	26%	48%	31%	50%
Kajiado	224	38%	24%	23%	36%	24%	34%
Kakamega	229	63%	40%	37%	57%	50%	63%
Kericho	174	62%	47%	46%	47%	24%	41%
Kiambu	346	33%	26%	25%	30%	17%	27%
Kilifi	199	42%	29%	27%	41%	24%	41%
Kirinyaga	142	33%	29%	29%	35%	20%	30%
Kisii	140	72%	72%	60%	72%	65%	70%
Kisumu	154	79%	67%	71%	80%	68%	77%
Kitui	313	48%	41%	30%	47%	26%	40%
Kwale	95	62%	37%	37%	60%	31%	65%
Laikipia	86	55%	26%	22%	45%	25%	40%
Lamu	42	65%	23%	23%	33%	19%	42%
Machakos	255	37%	29%	32%	37%	33%	22%
Makueni	184	61%	53%	46%	54%	47%	38%
Mandera	64	39%	16%	17%	23%	23%	20%
Marsabit	89	47%	24%	29%	31%	27%	34%
Meru	361	28%	16%	19%	26%	18%	21%
Migori	169	70%	66%	66%	71%	73%	65%
Mombasa	293	17%	13%	13%	16%	16%	17%
Muranga	184	36%	0%	33%	38%	25%	48%
Nairobi	868	26%	22%	20%	22%	23%	21%
Nakuru	317	49%	32%	31%	41%	32%	35%
Nandi	175	44%	32%	34%	41%	29%	46%
Narok	129	67%	41%	43%	49%	45%	41%
Nyamira	114	69%	69%	69%	66%	75%	63%
Nyandarua	116	48%	44%	35%	37%	26%	25%
Nyeri	245	25%	20%	13%	24%	9%	25%
Samburu	71	51%	26%	17%	58%	22%	40%
Siaya	155	73%	66%	64%	83%	66%	80%
Taita Taveta	81	52%	41%	35%	54%	32%	48%
Tana River	49	63%	14%	12%	71%	24%	39%
Tharaka Nithi	116	37%	23%	17%	25%	15%	17%
Trans-Nzoia	137	48%	20%	21%	33%	21%	26%
Turkana	136	56%	36%	34%	44%	36%	56%
Uasin Gishu	146	61%	44%	42%	44%	40%	24%
Vihiga	87	71%	44%	45%	55%	48%	78%
Wajir	110	60%	19%	16%	37%	14%	30%
West Pokot	84	49%	22%	31%	34%	26%	42%
<b>Facility type</b>							
Hospital	607	57%	43%	45%	54%	48%	53%
Health centre	1064	68%	56%	52%	68%	50%	61%
Dispensary	3676	57%	41%	37%	50%	34%	45%
Medical clinic/ VCT	2346	21%	12%	14%	15%	16%	15%
Maternity/Nursing home	301	38%	32%	31%	34%	31%	29%
<b>Managing authority</b>							
Public	3978	64%	48%	43%	59%	40%	54%
Private, not-for-profit	1327	51%	38%	40%	45%	39%	41%
Private, for-profit	2538	19%	12%	12%	14%	14%	14%
Others	152	28%	21%	20%	25%	22%	25%
<b>Urban/Rural</b>							
Urban	2450	30%	22%	22%	26%	25%	24%
Rural	4946	55%	40%	37%	49%	35%	45%
<b>Total</b>	<b>7396</b>	<b>47%</b>	<b>34%</b>	<b>32%</b>	<b>41%</b>	<b>31%</b>	<b>38%</b>

#### 5.10.4 Health governance readiness

Health Governance relates to the functioning of the institutions by which the authority of the State of Kenya is exercised. These address the regulatory and legal functions that all actors in the sector have to adhere to, and are built around the sector legal and regulatory framework. Health Governance structures are: community health Committees, health facility committees, district and hospital boards/ committees. In this regard 54% of the facilities had fully constituted board/health facility committees. The facility committees and boards are expected to meet at least once in 6 months and 49% of the facilities had the boards/committee meetings held in the past year. On corruption prevention, only 14% of the health facilities had corruption prevention committees in place and 26% of the health facilities with client's feedback independently managed suggestion boxes.

**Figure 34: Percentage of facilities with health governance capacity (N=7396)**



The County pattern is shown in the table overleaf

**Table 85: Health governance readiness, by County**

County	Total number of facilities	Fully constituted board/health facility committee	Board met at least 2 times in past financial year	Corruption prevention committee in place	Independently managed suggestion box
Baringo	169	78%	74%	11%	27%
Bomet	111	91%	80%	16%	20%
Bungoma	141	68%	63%	17%	23%
Busia	80	77%	72%	11%	28%
Elgeyo-Marakwet	116	82%	76%	13%	33%
Embu	149	63%	60%	14%	30%
Garissa	129	48%	45%	11%	11%
Homa Bay	180	81%	78%	33%	51%
Isiolo	41	76%	55%	10%	5%
Kajiado	224	43%	42%	13%	13%
Kakamega	229	62%	57%	10%	34%
Kericho	174	72%	66%	16%	19%
Kiambu	346	38%	35%	13%	26%
Kilifi	199	43%	41%	10%	34%
Kirinyaga	142	44%	40%	14%	30%
Kisii	140	81%	74%	26%	42%
Kisumu	154	78%	74%	26%	48%
Kitui	313	70%	63%	15%	18%
Kwale	95	71%	67%	19%	51%
Laikipia	86	60%	55%	15%	42%
Lamu	42	65%	53%	12%	51%
Machakos	255	53%	47%	11%	24%
Makueni	184	73%	65%	18%	46%
Mandera	64	52%	45%	6%	9%
Marsabit	89	67%	55%	8%	11%
Meru	361	35%	31%	8%	12%
Migori	169	72%	71%	30%	43%
Mombasa	293	17%	15%	7%	14%
Muranga	184	61%	0%	17%	44%
Nairobi	868	21%	20%	11%	20%
Nakuru	317	49%	45%	16%	23%
Nandi	175	63%	57%	11%	27%
Narok	129	74%	61%	18%	19%
Nyamira	114	74%	73%	27%	46%
Nyandarua	116	54%	52%	22%	38%
Nyeri	245	41%	39%	4%	20%
Samburu	71	68%	61%	13%	38%
Siaya	155	81%	74%	28%	60%
Taita Taveta	81	63%	54%	15%	56%
Tana River	49	80%	76%	6%	27%
Tharaka Nithi	116	57%	51%	8%	20%
Trans-Nzoia	137	40%	38%	9%	11%
Turkana	136	56%	48%	15%	11%
Uasin Gishu	146	56%	51%	15%	17%
Vihiga	87	60%	59%	7%	31%
Wajir	110	58%	47%	7%	9%
West Pokot	84	60%	45%	15%	8%
<b>Facility type</b>					
Hospital	607	64%	61%	37%	53%
Health centre	1064	81%	77%	20%	45%
Dispensary	3676	75%	67%	14%	27%
Medical clinic/Stand-alone VCT	2346	11%	10%	5%	9%
Maternity/Nursing home	301	36%	32%	16%	33%
<b>Managing authority</b>					
Public	3978	84%	78%	18%	36%
Private, not-for-profit	1327	52%	47%	17%	27%
Private, for-profit	2538	11%	10%	6%	11%
Others	152	28%	23%	10%	17%
<b>Urban/Rural</b>					
Urban	2450	27%	25%	12%	21%
Rural	4946	67%	62%	15%	29%
<b>Total</b>	<b>7396</b>	<b>54%</b>	<b>49%</b>	<b>14%</b>	<b>26%</b>

# 6 Conclusions