



# HEALTH SECTOR HUMAN RESOURCES STRATEGY 2014-2018





# **HEALTH SECTOR**

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December, 2014

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## **Health Sector Human Resources Strategy 2014 – 2018**

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## LIST OF ABBREVIATIONS

**AMREF** African Medical Research Foundation

**ANC** Antenatal Care

ART Anti Retroviral Therapy
A&E Accident and Emergency

AIDS Acquired Immune Deficiency Syndrome

CDC Center for Disease Control and Prevention

Charter Association of Kenya

CHAK Christian Health Association of Kenya
CHSP Community Health services personnel

COC Clinical Officers Council

DALYs Daily Adjusted Life Years

**DFID** Department for International Development

DMS Director of Medical Services
ESP Economic Stimulus Program
FBOs Faith-Based Organizations

FP Family Planning
GOVT Government

**HIS** Health Information System

HIV Human immuno deficiency virusHRH Human Resource for HealthHRD Human Resources DevelopmentHRM Human Resources Management

**HRIS** Human Resources Information System

**HW** Health Worker

ICC Inter-Agency Coordination Committee

**IMR** Infant Mortality Rate

**IPTp** Intermittent Preventive Treatment in pregnancy

ITNs Insecticide Treated Nets

JICA Japan International Cooperation Agency

KAIS Kenya Aids Indicator Survey

KCCB Kenya Conference of Catholic Bishops

**KeMU** Kenya Methodist University

KEMRI Kenya Medical Research Institute
KEPH Kenya Essential Package for Health
KEMSA Kenya Medical Supplies Agency
KEPSA Kenya Private Sector Alliance

KHSSP Kenya Health Sector Strategic and Investment Plan

KMTC Kenya Medical Training CollegeKNBS Kenya National Bureau of StatisticsKDHS Kenya Demographic and Health Survey

**KNH** Kenyatta National Hospital

**KSHS** Kenya Shillings

**L&M** Leadership and Management

**LLITNs** Long Lasting Insecticide Treated Nets

MDGs Millennium Development Goals

MFL Master Facility List

MMR Maternal Mortality Ratio

MOH Ministry of Health

**MOMS** Ministry of Medical Services

MOPHS Ministry of Public Health and Sanitation

MTPs Medium Term Plans

MTC Medical Training College

MTRH Moi Teaching and Referral Hospital

NHRHSP National Human Resources for Health Strategic Plan

NACC National Aids Control Council

**NASCOP** National Aids and STD Control Programme

NCDs Non Communicable DiseasesNGOs Non-Governmental OrganizationNHIF National Hospital Insurance Fund

NMR Neonatal Mortality Rate
NCK Nursing Council of Kenya

PAS Performance Appraisal System
HTIs Health Training Institutions

PHO Public Health Officer

**PMTCT** Prevention of Mother to Child Transmission

PPP Public private Partnership
PSC Public Service Commission

RH Reproductive Health

TNAs Training Needs Assessments

**TB** Tuberculosis

**TFR** Total Fertility Rate

TWG Technical Working Group
U5MR Under 5 Mortality Rate

**UNICEF** United Nations Children's Fund

**USAID** United States Agency for International Development

WHA World Health Assembly
WHO World Health Organization

## **FOREWORD**

he Government of Kenya is determined to improve access to and equity of quality essential health care services and to ensure that the health sector plays its role in the realization of Vision 2030, public service reforms and the Millennium Development Goals. We, however, recognize that it will be difficult to achieve these ambitious health milestones we have set, especially the achievement of Millennium Development Goals without improving the quality, quantity and distribution of the health workforce. Inadequate numbers of skilled human resource have had a negative impact on efforts to expand access and improve the quality of health services. This situation has been aggravated by the continued high prevalence of HIV/AIDS, tuberculosis and malaria, which remain the leading killer diseases in the country.

Kenya's health sector recognizes that human resources for health constraints are a critical ingredient hampering Kenya's health sector planning, service delivery and ultimately national health outcomes. Against this background, the sector has taken on the task of defining long-term strategies for addressing the constraints to human resource development and management so as to effectively improve health service delivery. Thus, this strategy presents an analysis of the current human resources situation in the country, the contextual factors, and some of the influences, key issues and constraints across the sector. To address these issues, the plan proposes a series of interlinked strategies to remedy the situation and improve the quality and efficiency of service delivery under the devolved system of government.

The core human resource challenges identified in the strategy cut across the sector. They span across virtually all the critical human resources areas, including policy and institutional arrangements, human resources planning, recruitment and placement, performance management and appraisal, reward and motivation, capacity building, and employee welfare. The plan proposes broad goals to address these challenges and modernize Kenya's human resources for health as a crucial element in the delivery of health services to the whole country, and particularly to areas that were hitherto underserved. In addition, the strategy incorporates the Country HRH Commitments as declared in the 3<sup>rd</sup> Global HRH Conference held in Brazil in November 2013, and strategies of its implementation.

While acknowledging the sector's long-standing human resource challenges, the Ministry of Health in collaboration with the 47 County Departments of Health is committed to providing effective leadership to facilitate the implementation of this strategy. This commitment aims to not only accelerate the achievement of the national health targets set by the Third National Health Sector Strategic Plan (NHSSP III) and the Millennium Development Goals, but also to realize Vision 2030. The County Departments of Health are therefore urged to identify with the Country HRH priorities for adoption and implementation through the County HRH Strategic Plans in line with devolved management of health workers.

We recognize that successful implementation of the strategy requires the concerted effort and commitment of a wide range of stakeholders in different health subsectors and others outside the health sector. In this regard, the National Ministry of Health and the County Health Departments will continue to provide stewardship in coordination of the sector and further strengthen future engagement processes. We strongly believe that, it is the sum total of all our efforts – big or small – that will contribute to better quality of life for our people and the reversal of the declining health status. The development of this strategy is highly welcome as it constitutes a significant addition to our HRH interventions. We are sure future editions will expand and improve on the information available in this issue, especially as the devolution of human resources for health takes shape in the country.

Dr. Khadijah Kassachoon,

**Principal Secretary Ministry of Health** 

**Dr. Maurice Peter Siminyu**,

Chair of Council of County Health Executives County Executive Committee Member of Health - Busia County

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The health sector appreciates the financial and technical support provided by the United States Agency for International Development (USAID) through the HRH Capacity Bridge Project that is overseen by Peter Waithaka of USAID and lead by Mr. Meshack Ndolo for facilitating and supervising the development of the strategic plan. The Ministry also wishes to thank the World Health Organization (WHO) represented by Dr Humphrey Karamagi and Stephen Cheruiyot, for partly meeting the strategy development consultant's fees and taking part in the development of the plan. Further appreciation goes to all the other development partners, individuals and institutions that contributed and continues to contribute, towards the improvement of the health status of Kenyans and who joined us in our effort to formulate the most appropriate, feasible and cost-effective mix of strategies for improving the planning, management and development of human resources in the health sector. We are also indebted to individuals and organizations that supplied key human resources for health data and information, which informed our understanding of the HRH situation and helped in the development of the health workforce projections and strategies.

**Dr. Nicholas Muraguri** 

**Director of Medical Services Ministry of Health** 

## **EXECUTIVE SUMMARY**

Human Resource for health is one of the core building blocks of a health system in any country. Global evidence points to a direct correlation between the size of a country's health workforce and its health outcomes. Over the last decade, Kenya's progress in improving the overall health status of its population has had mixed results. While life expectancy has gone up and interventions to address specific diseases including HIV/AIDs, Tuberculosis and Malaria have yielded positive results, much remains to be done.

Kenya is facing a great danger due to diseases/conditions belonging to mainly three domains, which are communicable diseases, non-communicable diseases/conditions and violence/injuries. These diseases/conditions continue to contribute to the high disease burden in the country, hence calling for more specialized human resources for health. The Constitution of Kenya 2010 devolved health services to the countries, which meant a complete change in the HRH structure and its management in the country.

The purpose of this strategy is to guide and provide a road map for HRH interventions for improved health service delivery. It builds on the successes and lessons learnt from the first National Human Resource for Health Strategic Plan.

The methodology of developing this HRH Strategy involved a desk review of various documents from the Ministry of Health and its agencies, especially in the divisions/departments of Health Information System (HIS), Human Resources/HRIS, Planning and Policy and Salaries. Additional literature and data were sought from other relevant institutions including government ministries, departments and agencies (MDAs), MOH partners who fall under HRH Inter-Agency Coordination Committee (ICC), the Kenya National Bureau of Statistics (KNBS), Internet and other sources. Key informant interviews and Focus Group Discussions (FGDs) were held with the Ministry of Health officials and stakeholders within ICC network. Two workshops were held with the all stakeholders to interrogate the preliminary findings by the Consultant. Several meetings were held thereafter with the Consultant, the TWG appointed by the ICC and the County Representatives to do further interrogation and fine-tune the draft.

The development of this strategy has been guided by the planning documents of Government of Kenya and the Ministry of Health which included Vision 2030, Constitution of Kenya 2010, Kenya Health Policy 2012-2030, and Kenya Health Sector Strategic and Investment Plan 2013-2017. The Guiding principles of this strategy include: Equity, Partnership and Collaboration, People-centered approaches, Innovation, Strong leadership and Accountability, Gender responsiveness and Rights-based approach.

The projected outcomes and strategic objectives for this strategy are as follows:

## **Outcome 1: Adequate and Equitably Distributed Health Workforce**

Strategic Objective 1.1: Strengthen recruitment of adequate numbers of health workforce with the right skills mix.

Strategic Objective 1.2: Equitable deployment and redeployment of the health workforce.

#### **Outcome 2: Conducive Environment that Attracts and Retains Health Workforce**

Strategic Objective 2.1: Make work conditions more attractive

Strategic Objective 2.2: Make hard to reach and marginalized areas/stations more attractive

Strategic Objective 2.3: Make work place safe

Strategic Objective 2.4: Improve Staff wellness and welfare

# Outcome 3: Responsive Institutional Framework that Support Workforce Performance Management

Strategic Objective 3.1: Improved Health Workforce Performance Management

#### **Outcome 4: Responsive HRD Systems and Practices**

Strategic Objective 4.1: Strengthened Human Resources Development Systems and Practices

Strategic Objective 4.2: Human Resource Master Plan Developed

#### **Outcome 5: Strengthened Human Resource Planning in HRD**

Strategic Objective 5.1: A Strong and decentralized HR planning and management

Strategic Objective 5.2: Strengthen ethics and values in HRH induction and practice

Strategic Objective 5.3: Develop HRH Communication Strategy

#### Outcome 6: Adequate Financial Resources Mobilized to Support Investment in HRH

Strategic Objective 6.1: Increase investment options for HRH

Strategic Objective 6.2: Reduced costs of HRH systems and processes

The implementation of this strategy falls under the leadership of the Principal Secretary Ministry of Health and Chief Officers of Health in the Counties in collaboration with Directorate of Public Service Management, Public Service Commission and County Public Service Boards and the Inter-Agency Coordination Committee of HRH at the National and County Levels. The implementation of this strategy will be guided by the indicators and targets set out in results framework. Annual action plans will be developed to guide the implementation of the strategy within the planning period.

The Directorate of Human Resources Management supported by Inter-Agency Coordination Committees (ICCs) will be entrusted with Monitoring and Evaluation of this strategy. An M&E Technical Working Group (TWG) consisting of 5-10 people will be appointed from the membership of ICCs to be in charge of M&E of this plan.

# **CHAPTER 1: INTRODUCTION**

Health with its socio-economic underpinnings remains one of the major global challenges and an important obstacle to human capital development. Important international milestones in the struggle for health include the Alma Ata Declaration on Primary Health Care, Roll Back Malaria, the Abuja and Maputo Declarations, Millennium Summit and many others. These milestones provided the platform for health sector planning and development in the country and as an international yardstick for which progress is assessed.

Human Resources for health are one of the core building blocks of a health system. Global evidence points to a direct correlation between the size of a country's health workforce and its health outcomes. In 2006, the World Health Organization (WHO) alerted the world of a shortfall of 4.3 million trained health workers, with the worst shortages being experienced in the poorest countries in Africa. The direct result of this is that millions of people die or are disabled every year. The WHO (2006) report says Kenya is one of the 57 countries in the world that face a severe health workforce crisis and is one amongst the 36 within sub-Saharan Africa.

Over the last decade, Kenya's progress in improving the overall health status of its population has been mixed. While life expectancy has gone up and interventions to address specific diseases including HIV/AIDs, Tuberculosis and Malaria have yielded positive results, much remains to be done. Geographic and gender disparities in health indicators persist and the country continues to face a significant threat from major communicable diseases and rapidly growing non-communicable diseases.

#### 1.1 Basic Socioeconomic Indicators

The population of Kenya has been growing steadily from 10,942,705 people in 1969 to 38,610,097 people in 2009 as shown in Table 1. Projections for 2012 placed it at 42,387,216 an increase of about 3.8 million people in three years (Appendix 2). The Kenya 2013 Index report estimated the Kenya population to had reached 44,037,656. The increase in population has great implications for human resources for health as large population strain resources leading to ill health and other social evils. This calls for a vibrant health care system with adequate, skilled and well distributed human resources to deal with diseases and other ailments.

Table 1: Population distribution by regions, 1969-2012

|               | Census     |            |            |            |            |  |  |  |  |  |
|---------------|------------|------------|------------|------------|------------|--|--|--|--|--|
| Province      | 1969       | 1979       | 1989       | 1999       | 2009       |  |  |  |  |  |
| Nairobi       | 509,286    | 827,775    | 1,324,570  | 2,143,254  | 3,138,369  |  |  |  |  |  |
| Central       | 1,675,647  | 2,345,883  | 3,111,255  | 3,724,159  | 4,383,743  |  |  |  |  |  |
| Coast         | 944,082    | 1,324,794  | 1,825,034  | 2,487,264  | 3,325,307  |  |  |  |  |  |
| Eastern       | 1,907,301  | 2,719,851  | 3,768,689  | 4,631,779  | 5,668,123  |  |  |  |  |  |
| North Eastern | 245,757    | 373,787    | 371,391    | 962,143    | 2,310,757  |  |  |  |  |  |
| Nyanza        | 2,122,045  | 2,643,956  | 3,507,160  | 4,392,196  | 5,442,711  |  |  |  |  |  |
| Rift Valley   | 2,210,289  | 3,240,402  | 4,917,551  | 6,987,036  | 10,006,805 |  |  |  |  |  |
| Western       | 1,328,298  | 1,832,663  | 2,622,397  | 3,358,776  | 4,334,282  |  |  |  |  |  |
| Kenya         | 10,942,705 | 15,309,111 | 21,448,047 | 28,686,607 | 38,610,097 |  |  |  |  |  |

Source: National HIS Annual Report 2012 (Draft).

Table 2 shows basic health indicators and compares them with the population growth based on the five censuses carried out in Kenya since 1969. According to the table, the total fertility rate (TFR)

decreased from 7.6 in 1969 to 4.6 in 2009 and was estimated at .8 in 2013. The Infant Mortality Rate (IMR) decreased to 66 per 1000 live births but rose again to 77.3 in 1999, declined to 52 in 2009 and to 42.2 in 2013. While these are good indicators for a country that is struggling with economic growth and to overcome disease burden, poverty and social evils, the population is increasing at an alarming rate of three percent per annum which is likely to reverse these significant gains.

Table 2: Selected demographic indicators for Kenya, 1969, 1979, 1989, 1999 and 2009

| Indicator                               | 1969 | 1979 | 1989 | 1999 | 2009 |
|---|------|------|------|------|------|
| Population(millions)                    | 10.9 | 16.2 | 23.2 | 28.7 | 38.6 |
| Density (pop/km²)                       | 19.0 | 27.0 | 37.0 | 49.0 | 67.7 |
| Percent urban                           | 9.9  | 15.1 | 18.1 | 19.4 | 21.0 |
| Crude birth rate                        | 50.0 | 54.0 | 48.0 | 41.3 | 34.8 |
| Crude death rate                        | 17.0 | 14.0 | 11.0 | 11.7 | -    |
| Inter-censual growth rate               | 3.3  | 3.8  | 3.4  | 2.9  | 2.8  |
| Total fertility rate                    | 7.6  | 7.8  | 6.7  | 5.0  | 4.6  |
| Infant mortality rate (per 1000 births) | 119  | 88   | 66   | 77.3 | 52.0 |
| Life expectancy at birth                | 50   | 54   | 60   | 56.6 | 58.9 |

Source: MOH HIS Annual Report 2012 (Draft)

Table 3 shows selected mortality rates for 1990 to 2010 with their associated MDG targets. As indicated, most mortality indicators show much improvement in 2010 compared to 1990. For instance, neonatal mortality rate (NMR) declined from 31 percent in 1990 to 27 in 2010 and is expected to drop to 10 percent in 2015. Infant mortality rate (IMR) reduced from 64 per 1,000 in 1990 to 55 per 1,000 in 2010 and is expected to reduce further to 21 per 1,000 in 2015. The under-five mortality rates (U5MR) also dropped from 99 percent in 1990 to 85 in 2010 and is expected to drop to 33 percent in 2015. The other key indicator is the maternal mortality ratio (MMR) which dropped from 600 per 100,000 live births in 1990 to 358 per 100,000 live births in 2010.

Table 3: Selected mortality rates indicators and targets for MDGs

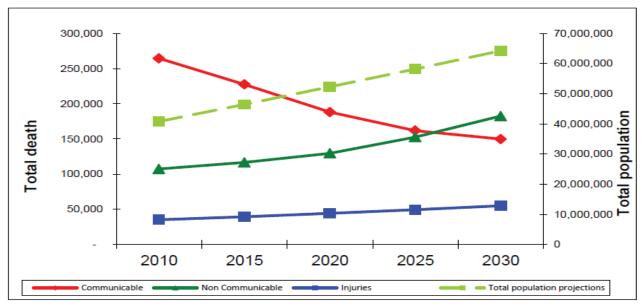
| Mortality Rate/Year              | 1990 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2015<br>MDG<br>Target |
|----------------------------------|------|------|------|------|------|------|------|-----------------------|
| Neonatal Mortality Rate (NMR)    | 31   | 30   | 30   | 29   | 29   | 28   | 27   | 10                    |
| Live Infant Mortality Rate (IMR) | 64   | 61   | 60   | 59   | 57   | 56   | 55   | 21                    |
| Under Five Mortality Rate (U5MR) | 99   | 98   | 95   | 92   | 89   | 87   | 85   | 33                    |
| Maternal Mortality Ratio (MMR)   | 600  | 409  | 399  | 388  | 378  | 368  | 358  | 150                   |
| Adult Male Mortality Rate (AMR)  | -    | 435  | 423  | 410  | 400  | 390  | 380  | -                     |
| Crude Death Rate (CDR)           |      | 12   | 12   | 12   | 11   | 11   | -    | -                     |

Source: WHO, World Bank Database (2012).

#### 1.2 Disease Burden

Three disease domains (communicable diseases, non communicable conditions and violence/injuries) continue to contribute to the high disease burden in the country. As shown in Figure 1, trends suggest non communicable conditions will continue to increase in the coming years, if not checked.<sup>1</sup>

Health Sector Strategic and Investment Plan 2013-2017.



Source: Health Sector Strategic and Investment Plan 2013-2017.

Figure 1: Projections of disease burden 2011 - 2030

Table 4 shows the leading causes of death and Disability Adjusted Life Years (DALY) in the country. Among the three disease domains mentioned above, HIV/AIDS contributes about 19 percent making it the leading cause of death in the country. Other causes of death are the conditions arising during the peri-natal period (9 percent), lower respiratory infections (8.1 percent), tuberculosis (6.3 percent) and diarrhoea diseases (6 percent). Road accidents and violence contribute 1.9 percent and 1.6 percent respectively. On the other hand, HIV/AIDS is the leading cause of DALYs in the country followed by the conditions arising during the peri-natal period (10.7 percent), malaria (7.2 percent) and lower respiratory infections (7.1 percent).

Table 4: Leading causes of deaths and DALY's in Kenya<sup>2</sup>

| Causes | of death  |         | Caus | Causes of DALY's                                    |         |  |  |  |
|--------|---|---------|------|---|---------|--|--|--|
| Rank   | Disease or injury                               | % total | Rank | Disease or injury                                   | % total |  |  |  |
|        |   | deaths  |      |   | DALYs   |  |  |  |
| 1      | HIV/AIDS  | 29.3    | 1    | HIV/AIDS  | 24.2    |  |  |  |
| 2      | Conditions arising during the peri-natal period | 9.0     | 2    | Conditions arising during the peri-<br>natal period | 10.7    |  |  |  |
| 3      | Lower respiratory infections                    | 8.1     | 3    | Malaria   | 7.2     |  |  |  |
| 4      | Tuberculosis                                    | 6.3     | 4    | Lower respiratory infections                        | 7.1     |  |  |  |
| 5      | Diarrheal diseases                              | 6.0     | 5    | Diarrheal diseases                                  | 6.0     |  |  |  |
| 6      | Malaria   | 5.8     | 6    | Tuberculosis  | 4.8     |  |  |  |
| 7      | Cerebral-vascular disease                       | 3.3     | 7    | Road traffic accidents                              | 2.0     |  |  |  |
| 8      | Ischemic heart disease                          | 2.8     | 8    | Congenital anomalies                                | 1.7     |  |  |  |
| 9      | Road traffic accidents                          | 1.9     | 9    | Violence  | 1.6     |  |  |  |
| 10     | Violence  | 1.6     | 10   | Uni-polar depressive disorders                      | 1.5     |  |  |  |

DALY's = Disability Adjusted Life Years.

Source: GOK 2010. Review of the Kenya Health Policy Framework, 1994 – 2010.

The Kenya Health Policy (2014-2030 estimates that communicable, non communicable and Violence/injuries will contribute to 290,000 deaths in 2030 (i.e. 5.4 deaths per 1,000 persons), down from 420,000 deaths in 2010 (i.e. 10.6 deaths per 1,000 deaths).<sup>3</sup> The Policy anticipates significant reduction in some conditions such as HIV/AIDS and Malaria, and the increase in other conditions such as cancers, cerebrovascular and ischaemic heart diseases.

 $<sup>^{2}</sup>$  DALY's means Disability Adjusted Life Years – Time lost due to incapacity arising from ill health.

<sup>&</sup>lt;sup>3</sup> Kenya Health Policy 2012-2013. Ministry of Health.

The top five causes of outpatient morbidity in Kenya are Malaria, Diseases of the Respiratory System (including pneumonia), Skin Diseases, diarrhea and accidents accounting for about 70 percent of total causes of morbidity. Malaria contributes about a third of total outpatient morbidity.<sup>4</sup> The incidence of malaria declined from 32.8 percent in 2008 to 24 percent in 2012, a reduction of 22.7 percent. However, the disease of the respiratory system (including pneumonia) continued to increase. For instance, in 2008 the incidence stood at 27.6 percent but increased to 34 percent in 2012, an increase of 18.8 percent. But the incidence of pneumonia in particular declined from 3.5 percent in 2008 to 2.9 in 2012. In 2011, the other disease of the respiratory system was the leading cause of morbidity for the under five years in all regions except Eastern, Nyanza and Western. In Eastern, Nyanza and Western, clinical malaria was the leading cause. Apart from Nyanza and Western regions, diseases of the respiratory system were the leading cause of morbidity for the over five years in 2011. The diseases of the skin (including ulcers) have continued to increase over the years. In 2008 the incidence was 7 percent declining slightly to 6.8 in 2011 but rose to 7.8 in 2012. The incidence of diarrhea also increased from 4.9 percent in 2008 to 5.3 percent in 2012, a change of 7.5 percent.<sup>5</sup>

In 2011 malaria was the leading cause of inpatient morbidity for the under five years as indicated by 6,896 cases. It was also the leading cause of morbidity for the over five years in which 7,074 people were infected. The second leading cause of inpatient morbidity in 2011 for both the under five and over five was intestinal infectious diseases in which 4,484 and 2,666 people were infected, respectively. The acute upper respiratory infection was the third leading cause of inpatient morbidity in 2011 for the under five as indicated by 3,589 cases. In the same year, HIV was the third leading cause of inpatient morbidity for over five years with 1,490 cases.6

As Table 5 indicates, pneumonia was the leading cause of death in 2012 leading to 19,011 fatalities with Central region leading with 4,680 cases. Malaria was the second with 18,746 cases, with Western leading with 5,872 cases. Cancer has been on the rise with statistics for 2012 showing that it caused death of 11,863 people and was the third leading killer in that year. As shown in the table, 173,912 people were reported to have died from various causes in 2012.7

**Table 5: Causes of Death by Region in 2012** 

| Cause of death         | Nairobi | Central | Western | Coast | Nyanza | Eastern | North<br>Rift | South<br>Rift | North<br>Eastern | Total    |
|------------------------|---------|---------|---------|-------|--------|---------|---------------|---------------|------------------|----------|
| Tuberculosis           | 1190    | 1121    | 1133    | 787   | 1637   | 1632    | 714           | 909           | 113              | 9236     |
| Cancer                 | 1041    | 1993    | 1985    | 859   | 2092   | 1492    | 1044          | 1297          | 60               | 11863    |
| Malaria                | 831     | 786     | 5872    | 1443  | 4520   | 2672    | 1310          | 1085          | 227              | 18746    |
| Meningitis             | 694     | 556     | 373     | 322   | 849    | 377     | 286           | 490           | 21               | 3968     |
| Anaemia                | 459     | 793     | 1329    | 1029  | 1288   | 833     | 522           | 606           | 72               | 6931     |
| Heart disease          | 1438    | 615     | 390     | 278   | 854    | 1063    | 297           | 519           | 38               | 5492     |
| Pneumonia              | 1971    | 4680    | 1964    | 1236  | 2383   | 2410    | 1385          | 2903          | 79               | 19011    |
| AIDS                   | 865     | 1310    | 1686    | 900   | 1579   | 869     | 1033          | 1171          | 23               | 9436     |
| Road traffic accidents | 797     | 721     | 243     | 432   | 707    | 536     | 357           | 620           | 44               | 4457     |
| Other accidents        | 1156    | 534     | 325     | 366   | 405    | 432     | 394           | 509           | 10               | 4131     |
| Other<br>diseases      | 9390    | 11242   | 10667   | 7510  | 12980  | 12593   | 11872         | 3079          | 1308             | 80641    |
| Total                  | 19832   | 24351   | 25967   | 15162 | 29294  | 24909   | 19214         | 13188         | 1995             | 17391 22 |

Source: Economic Survey, 2013.

<sup>&</sup>lt;sup>4</sup> Republic of Kenya, Health Sector Working Group Report;. Medium Term Expenditure Framework (MTEF), 2013-2015,16. October 2012.

<sup>&</sup>lt;sup>5</sup> Kenya National Bureau of Statistics, Economic Survey 2013 and Ministry of Health, Health Information System Annual Report 2012 (Draft).

<sup>&</sup>lt;sup>6</sup> Ministry of Medical Services, Health Facts and Figures, 2012.

<sup>&</sup>lt;sup>7</sup> Kenya National Bureau of Statistics. Economic Survey, 2013.

Below is a brief discussion of some of the major disease conditions which belong to the life threatening three disease domains (communicable, non communicable and accidents/injuries) and have implications on human resources for health.

#### 1.2.1 Communicable Diseases

#### **HIV/AIDS**

The HIV/AIDS epidemic has evolved to become one of the biggest impediments to health and development since 1984 when the first case of HIV was identified in Kenya. Since the epidemic began, it has claimed the lives of 1.7 million people in the country. In 2011, an estimated 49,126 people died in the country due to HIV-related causes.<sup>8</sup>

HIV/AIDS is estimated to be the leading cause of death in the coming years accounting for about 30 percent of deaths. HIV/AIDS together with other infectious diseases such as Malaria, Lower respiratory infections and TB account for almost half of all DALYs in Kenya.<sup>9</sup>

HIV prevalence estimate varies widely across regions and counties, but estimates from the 2008/09 Kenya Demographic and Health Survey (KDHS) placed the prevalence rate at 6.3 percent, slightly lower than the KDHS 2003 of 6.7 percent. The KAIS 2012 placed the prevalence at 5.6 percent. The survey reveals that the prevalence was highest among those aged between 45 and 54 years, and is slightly higher among urban than rural populations. Nyanza region registered the highest prevalence.

An estimated 1.6 million Kenyans were living with HIV as of December 2011 which represents nearly four-fold increase over the 400,000 people estimated to have been living with HIV in Kenya in 1990. As people living with HIV are living longer as a result of improved access to HIV treatment, it is anticipated that the total number of HIV-infected individuals in Kenya will continue to increase, approaching 1.8 million by 2015<sup>11</sup>. UNAIDS (2008) says Kenya has the third largest population of people living with HIV in sub-Saharan Africa and the highest national HIV prevalence of any country outside Southern Africa<sup>12</sup>. In 2011, approximately 6.2 percent of adult population became infected. Every year, about 0.5 percent of Kenyan adult population (or 1 out 200) becomes newly infected<sup>13</sup>.

Statistics for 2012 show that there were a total of 707,455 HIV positive patients, 523,276 were currently on ARVs but 183,479 had not started on ARVs. The three leading counties HIV infections were Homa Bay, Kisumu and Siaya with 61,340, 60,127 and 48,944 HIV positive patients respectively. The three counties are located in Nyanza region. Despite the fact that the pace of new HIV infections have slowed in Kenya, the number of new infections remains high. Based on current trends, it is projected that the number of new HIV infections will continue their slow but steady decline, with 81,972 new infections among people over age 15 expected in 2013.<sup>11</sup>

#### **Tuberculosis (TB)**

Tuberculosis infections have been on the increase ever since the advent of HIV/AIDS in 1984. These infections are as a result mostly of opportunistic infections relating to immune system suppression due to HIV. In 2012, Nairobi (20,102), Nakuru (7,621), Mombasa (5,270), Homa Bay (4,365) and Migori (4,236) had the highest cases of TB recording. On the other hand, Lamu (222), Isiolo (434), Wajir (570), Tana River (572) and Taita Taveta (585) recorded the lowest number of cases. In total the country lost 5,866 due to TB, with the highest number being recorded in Nairobi (758), Siaya (520) and Kiambu (329). A total of 40,272 TB patients tested HIV positive with Nairobi being leading county with 6,230 cases.<sup>12</sup>

#### Malaria

Nearly 28 million Kenyans live in areas of malaria risk, majority being children under the age of 15 years. Investments in malaria control over the last five years have had impact on the overall morbidity

<sup>&</sup>lt;sup>8</sup> Kenya Aids Epidemic Update 2012, NACC, Office of the President.

<sup>&</sup>lt;sup>9</sup> Health Sector Strategic and Investment Plan 2013-2017.

<sup>&</sup>lt;sup>10</sup> Republic of Kenya, 2012. Health Sector Working Group Report. Medium Term Expenditure Framework 2012/13-2015/16.

<sup>&</sup>lt;sup>11</sup> The Kenya Aids Epidemic Update 2012, Office of the President, National Control Council.

<sup>&</sup>lt;sup>12</sup> Ministry of Health, Division of Health Information Systems.

and mortality that is due to malaria. Malaria Incident Survey 2010 shows that children aged between 5-14 years have the highest incidence of malaria at 13 percent. The prevalence in children below five years increased from 4 percent in 2007 to 8 percent in 2010. Malaria prevalence is nearly three times as high in rural areas (12 percent) as in urban areas (five percent). The lake zone has the highest prevalence of malaria overall (38 percent) while the prevalence in other areas is less than five percent.<sup>13</sup> The malaria endemic zones in the country are Coast, Nyanza (except Kisii, Gucha and Nyamira) and Western (except Mt. Elgon, Lugari and Likuyani).<sup>14</sup> In 2011 for instance, clinical malaria was the leading cause of morbidity in Nyanza Region and Western regions accounting for 31.3 and 32.1 percent respectively.<sup>15</sup>

Nationally clinical malaria accounts for up to 30 percent of outpatient attendance and 19 percent of the admissions to health facilities, and is a leading cause of death in children under five years. It is responsible for extensive mortality and morbidity, especially of children and it saps the vitality of the workforce and diverts resources needed for development of the country.<sup>16</sup>

### 1.2.2 Non-Communicable Diseases (NCDs)

There were 1,976,337 NCDs cases in 2012. Accidents were leading with 846,083 cases, followed by hypertension with 453,745 cases. Nairobi and Kiambu led all other counties in NCDs with 155,899 and 126,754 cases respectively.

#### 1.2.3 Maternal Health

Nationally the average attendance for antenatal care (ANC 1) is (68.5 percent), ANC 4 (30.4 percent), IPTp2 were 19.8 percent in 2012. The attendance shows high and low attendance for ANC 1 and 4 respectively. ANC 1 attendance was highest in the following counties: Lamu (100.3 percent), Nyeri (96.3 percent), Mombasa (96.1 percent) and Taita Taveta (88.3 percent). The following counties had the lowest attendance: Laikipia (47 percent), Makueni (45.5 percent), Tharaka Nithi (45.6 percent), Machakos (41.7 percent) and Wajir (34.6 percent.)<sup>18</sup>.

Nationally in 2012 the new ANC clients were 1,132,926 out of which 1,094,617 were tested for HIV and 45,306 tested HIV positive. This shows a test rate of 96.6 percent and positivity rate of 4.1 percent. The majority of those tested positive were from Nairobi (7,907) followed by Kisumu (3,765) and Homa bay (3387) The counties with the least number of clients who tested negative were Mandera (10), Wajir (15) and Tana River (49) ibid.

Table 6 shows facility based mortality per 100,000 in 2012 was 135.3 cases. West Pokot reported the highest rate of 395.1 per 100,000 followed by Lamu (371.4 per 100,000) and Garissa (338.1 per 100,000). Nyamira, Muranga and Isiolo reported the lowest rate of 27.4, 39.3 and 47.4 per 100,000, respectively.

Table 6: Facility based maternal mortality per 100,000, 2012

| County       | Facility Maternal Mortality Ratio per 100,000 |
|--------------|---|
| West Pokot   | 395.1   |
| Lamu         | 371.4   |
| Garissa      | 338.1   |
| Uasin Gishu  | 306.1   |
| Mombasa      | 304.3   |
| Mandera      | 298.1   |
| Samburu      | 294.6   |
| Turkana      | 257.1   |
| Taita Taveta | 223.2   |
| Marsabit     | 220.9   |

<sup>&</sup>lt;sup>13</sup> MOPHS, KNBS & ICF Macro (2011). 2010 Kenya Malaria Indicator Survey.

<sup>&</sup>lt;sup>14</sup> Ministry of Health, Health Information System Annual Report 2012 (Draft).

<sup>15</sup> Ibid.

<sup>16</sup> Ibid.

| County          | Facility Maternal Mortality Ratio per 100,000 |
|-----------------|---|
| Bomet           | 202.8   |
| Busia           | 202.1   |
| Bungoma         | 198.2   |
| Baringo         | 195.4   |
| Trans-Nzoia     | 193.8   |
| Kilifi          | 188.9   |
| Elgeyo-Marakwet | 186.7   |
| Makueni         | 186.1   |
| Kitui           | 185.8   |
| Narok           | 181.1   |
| Kisumu          | 174.1   |
| Kakamega        | 169.6   |
| Kwale           | 155.4   |
| Kajiado         | 149   |
| Nyeri           | 132.8   |
| Meru            | 123.6   |
| Siaya           | 117.1   |
| Migori          | 112.4   |
| Wajir           | 109.3   |
| Embu            | 107.8   |
| Nakuru          | 107.7   |
| Machakos        | 103.1   |
| Vihiga          | 100   |
| Homa Bay        | 97.1  |
| Kiambu          | 94.8  |
| Kirinyaga       | 93.2  |
| Kericho         | 91.2  |
| Tana River      | 88.8  |
| Laikipia        | 73.4  |
| Tharaka Nithi   | 66  |
| Nandi           | 62.9  |
| Kisii           | 62  |
| Nyandarua       | 57.6  |
| Nairobi         | 57.1  |
| Isiolo          | 47.4  |
| Muranga         | 39.3  |
| Nyamira         | 27.4  |
| Kenya           | 135.3   |

Source: MOH HIS Report 2012

#### 1.2.4 Child Health

Since 1948 infant mortality has declined from 184 per 1,000 live births to 52 per 1,000 live births in 2009. The under five mortality has also declined from 219 per 1,000 live births to 74 per 1,000 live births in 2009 as shown in Table 7.

**Table 7: Infant and child mortality** 

| Year | Infant Mortality Rate (per 1,000 live births) | Under 5 Mortality Rate (per 1,000 live births) |
|------|---|--|
| 1948 | 184   | -  |
| 1962 | 126   | 219  |
| 1969 | 119   | 190  |
| 1979 | 104   | 157  |
| 1989 | 59  | 113  |

| Year    | Infant Mortality Rate (per 1,000 live births) | Under 5 Mortality Rate (per 1,000 live births) |
|---------|---|--|
| 1993    | 62  | 93   |
| 1998    | 74  | 112  |
| 2000    | 73  | 116  |
| 2003    | 77  | 115  |
| 2006    | 60  | 92   |
| 2008-09 | 52  | 74   |

Source: Ministry of Medical Services, Health Facts and Figures, 2012.

The common diseases against which immunization is given include tuberculosis, polio, tetanus, rubella, mumps, whooping cough, and diphtheria.<sup>17</sup> In 2008 North Eastern was leading with 89 percent coverage and the least was Rift Valley and Eastern (each with 64 percent). In 2009 Central was leading but North Eastern was the last by recording 67 percent coverage. In 2010 Nairobi and Central were the leading each recording 96 percent coverage. The least in that year was North Eastern with 57 percent. Central was leading in 2011 with 99 percent coverage with the least being Western. In 2012 Nyanza recorded 100 percent coverage with North Eastern recording 60 percent coverage. <sup>18</sup>

#### 1.2.5 Lifestyle Diseases and Risk Health Factors

Lifestyle related diseases such as hypertension, diabetes, heart disease and cancers are increasing, hence posing a threat to the health care system in terms of diverting resources from basic health care services. <sup>19</sup> Kenyans also face a number of risk factors to health which include unsafe sex, suboptimal breastfeeding, alcohol and tobacco use, and substance abuse, obesity and physical inactivity, amongst others.

#### 1.3 Purpose and Objectives of Human Resources For Health

Kenya's health care system faces critical human resources for health demands which are similar to the health systems in many African countries. Recognizing that human resource demands are an integral part of the challenges confronting the National Health System, the Kenya HRH Strategy is one of the steps the national and county governments in collaboration with partners are taking to strengthen the human resources for health in order to deliver quality health services more efficiently. There are myriads of challenges facing the Kenya's human resources for health which includes severe shortages of essential cadres, persistent inability to attract and retain health workers, poor and uneven remuneration among cadres, poor working conditions, inadequate or lack of essential tools and medical and non-medical supplies, the unequal distribution of staff, diminishing productivity among the health workforce, and poor leadership and governance etc. The purpose of this strategy is to guide and provide a road map for HRH interventions for improved health service delivery.

The first National HRH Plan for the period 2009-2012 was aimed at supporting the National Health Sector Strategic Plan II goal of reducing health inequities and reversing the decline in the key health indicators. This strategy builds on the success and lessons learnt from the first National Human Resource for Health Strategic Plan. It will be linked to the Kenya Health Policy 2014-2030 and Kenya Health Sector Strategic and Investment Plan 2013-2017. The constitution of Kenya 2010 has devolved health functions to the counties with the national government mandate being health policy formulation and coordination, capacity building and technical assistance to the counties and the national referral health facilities. This strategy takes cognizance of the changes brought about by the implementation of the constitution which has great implications for human resources for health.

<sup>&</sup>lt;sup>17</sup> Immunization services in Kenya is based on an immunization schedule from the time when the mother is pregnant as TT has to be administered. Immediately after birth the newborn starts the vaccination by receiving BCG and OPV birth dose. The other antigens namely OPV, DPT/Hep/Hib and PCV are administered at 6weeks, 10 weeks and 14weeks. Measles and Yellow Fever (high risk areas) are administered at 9months. The schedule emphasizes that a child should receive all the doses within the first year of life to be fully immunized.

<sup>&</sup>lt;sup>18</sup> KNBS, Economic Survey 2013.

<sup>&</sup>lt;sup>19</sup> Ministry of Public Health and Sanitation Strategic Plan, 2008-2012.

The specific objectives of this strategy are as follows:

- Align the development of HRH Strategy to the Kenya Health Sector Strategic and Investment Plan 2013-2017, Public Service Commission Act 2012 and other evidence based HRH proposals, reports and assessments;
- Articulate future HRH investments areas, HRH coordination mechanism in the National HRH Strategic plan;
- Outline implementation framework for identified HRH priorities, budgetary estimates, resource mobilization plan, monitoring and evaluation plan and tools, and the implementation structures to support implementation of the identified priorities.

#### 1.4 Health Care System and Structures

Kenya has a wide range of health facilities operated by the Government, Faith-based Organizations (FBOs), Non-Governmental Organizations (NGOs), international organizations and private sector spread across the country totaling to 7,795. The government leads with ownership of health facilities with a total of 3,956 followed by private sector with 2,652 as shown in Table 8.<sup>20</sup>

Besides health facilities there are other accredited public and private institutions that offer advance medical training. The Kenya Medical Supplies Agency (KEMSA) procures and provides drugs, and other medical and non-medical supplies to all public health facilities. The National Hospital Insurance Fund (NHIF) finances or subsidizes medical bills for members and their dependants. Other public agencies include NACC and NASCOP (deals with prevention and treatment of HIV/AIDS).

There also exists numerous institutions in Kenya run by private sector, faith based organizations and NGOs that provide medical training and research. They include institutions such as medical training centres, universities (e.g. KeMU, Mount Kenya University, University of East Africa at Baraton), research centres such as Centre for Disease Control and Prevention (CDC), AMREF, etc.

Table 8: Distribution of health facilities by ownership and level of care

| Key Health     | Community |              | Primai            | y Care faci        |                    | County           | National  | Total     |      |
|----------------|-----------|--------------|-------------------|--------------------|--------------------|------------------|-----------|-----------|------|
| Infrastructure |           | Dispensaries | Health<br>Centres | Medical<br>Clinics | Maternity<br>homes | Nursing<br>homes | hospitals | hospitals |      |
| Government     |           | 2954         | 682               | 35                 | 1                  | 0                | 268       | 16        | 3956 |
| Faith Based    |           | 561          | 166               | 61                 | 3                  | 11               | 79        |           | 881  |
| NGO's          |           | 200          | 24                | 73                 | 4                  | 5                |           |           | 306  |
| Private        |           | 196          | 60                | 2,098              | 32                 | 150              | 116       |           | 2652 |
| Total          |           | 3911         | 932               | 2267               | 40                 | 166              | 463       | 16        | 7795 |

Source: KHSSP 2013-2017.

National Health Sector Strategic Plan II introduced the Kenya Essential Package for Health (KEPH) which defines six levels of preventive and curative services. KEPH categorizes health service delivery into level 1-6. Level 1 is the community, level 2 dispensaries, level 3 health centres, level 4 district hospitals, level 5 provincial hospitals and level 6 referrals as shown in Figure 2.<sup>21</sup>

<sup>&</sup>lt;sup>20</sup> KHSSP 2013-2017.

<sup>&</sup>lt;sup>21</sup> Ministry of Health, 2007, Reversing the Trends: The Second National Health Sector Strategic Plan of Kenya – The Kenya Essential Package for Health.

Tertiary
hospitals

5
Secondary hospitals

4
Primary hospitals

Health centres, maternities, nursing homes

# 2 Dispensaries/clinics

Interface between community & formal health system

-Community: ∀illage/households/families/individuals

Source: KHSSP 2005-2010

As a result of the implementation of the constitution of Kenya 2010, health functions have been devolved to the county. In the structure, County Health Services are organized around three levels of care: Community, Primary care, and Referral services. Community level will focus on organizing appropriate demand for services, while (Primary Care and primary referral services) will focus on responding to this demand.

- The Community Health services comprise of all community based demand creation activities, organized around the Comprehensive Community Strategy defined by the Health Sector.
- The Primary care services will comprise of all dispensaries, health centers and nursing homes for public and non public providers. Their capacity will be upgraded, to ensure they can all provide appropriate demanded services.
- The Primary referral services will include all level four hospitals (district hospitals), which will be referred to as County Referral Hospitals. They will each be expected to provide specialized services, medical and their related infrastructure. The County referral system will comprise of ALL the County referral hospitals located in the County.
- Besides making policies, the Ministry of Health headquarters will be responsible for four referral hospitals (Kenyatta National Hospital Moi Teaching and Referral Hospital, Mathari Hospital and National Spinal Injury Hospital).

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:

- 1. Pregnancy and the newborn (up to 28 days): The health services specific to this age-cohort across all the Policy Objectives.
- 2. Childhood (29 days 59 months): The health services specific to the early childhood period.
- 3. Children and Youth (5 19 years): The time of life between childhood, and maturity.

- 4. Adulthood (20 59 years): The economically productive period of life.
- 5. Elderly (60 years and above): The post economically productive period of life.<sup>22</sup>

The distribution of health facilities shows that Ministry of Health account for 42.9 percent of the total health facilities in the country while private sector accounts for 37.8 percent and faith-based organizations 11.4 percent. NGOs accounts for 3.7 percent of facilities and others owned by other public institutions as shown in Table 9.<sup>23</sup>

Table 9: Distribution of health facilities by ownership: Major Categories in 2013

| Owner Category                            | Number of Facilities | Proportion (%) |
|---|----------------------|----------------|
| Ministry of Health                        | 3,965                | 42.9           |
| Other Public Institution                  | 438                  | 4.7            |
| Faith Based Organization                  | 1,053                | 11.4           |
| Private Institutions and Private Practice | 3,500                | 37.8           |
| Non-Governmental Organizations            | 293                  | 3.2            |
| Total:                                    | 9,249Bottom of Form  | 100            |

Source: Master Facility List/Health Information System (MFL/HIS)

Table 10 shows distribution of health facilities by major categories in 2013. From a total of 9,249 health facilities, dispensaries are the leading accounting for 45.8 percent followed by medical clinics (31.8 percent) and health centers (10.9 percent). Maternity and nursing homes only constitute 2.5 percent of total health facilities in the country.

**Table 10: Distribution of Health Facilities by Type: Major categories in 2013** 

| Туре                       | Number of facilities | Percent |
|----------------------------|----------------------|---------|
| Hospital                   | 507                  | 5.5     |
| Health Centre              | 1,012                | 10.9    |
| Maternity and Nursing Home | 232                  | 2.5     |
| Medical Clinic             | 2,943                | 31.8    |
| Dispensary                 | 4,239                | 45.8    |
| Other                      | 316                  | 3.4     |
| Total                      | 9249                 | 100     |

Source: Master Facility List /Health Information Systems (MFL/HIS)

The Master Facility List/Health Information System (MFL/HIS) indicated that in 2013 there were a total of 9,249 health facilities, with 3 referral hospitals, 9 level 5 hospitals, 264 level 4 hospitals, and 231 other hospitals in 2013. There are 1,012 health centres, 186 nursing homes and 46 maternity homes. In addition, there are 2,943 medical clinics and 4,239 dispensaries which are the majority while the remaining number was made up of medical centres, eye clinic/centres, blood banks, dental clinic, etc.<sup>24</sup>

#### 1.5 The Methodology of Developing the HRH Strategy

The process involved a desk review of documents from the Ministry of Health and its agencies. Additional literature and data were sought from other relevant institutions which included other government ministries, departments and agencies (MDAs), HRH ICC network, Kenya National

<sup>&</sup>lt;sup>22</sup> MOMS & MOPHS, Kenya Health Policy 2012-2030.

<sup>&</sup>lt;sup>23</sup> MOH HIS Annual Report 2012 (Draft).

<sup>&</sup>lt;sup>24</sup> Ministry of Health. Master Facility List/Health Information Systems, 2013.

Bureau of Statistics (KNBS), Internet and other sources. Key Informant Interviews and Focus Group Discussions (FGDs) were held with the Ministry of Health officials, stakeholders within ICC network such as Capacity Kenya, Funzo Kenya Project, World Bank/IFC and DFID, JICA, WHO and also with other stakeholders such as KEPSA/Kenya Healthcare Federation, Nursing Council of Kenya, Clinical Officers Council, Kenya Medical Association, CHAK, SUPKEM, etc. Two workshops, one in Lukenya Getaway and the other in Nairobi, were held to present the zero draft report developed by the Consultant and interrogate the findings contained in the draft.

#### 1.6 Guiding Principles

Similar to the first HRH Strategic Plan, this Strategy is guided by a number of fundamental principles. These included:

- **Equity:** Equitable delivery of health services in all counties in Kenya through the deployment of adequate number of competent, well motivated and managed health staff.
- Partnership and collaboration: Building strong partnership with development partners, private sector, faith-based organizations (FBOs) and the community in order to build and strengthen the entire health workforce.
- **People-centred approaches:** The health sector recognizes health workers as the most important asset in the delivery of health care services.
- **Innovation:** Innovative approaches will be used in the training, recruitment, deployment and management of the health workforce.
- **Strong leadership and accountability:** There will be strong and accountable leadership at all levels to support HRH strengthening.
- **Gender responsiveness:** Gender responsive approaches will be adopted to ensure gender equity in the training, recruitment, deployment, development and management of the health workforce.
- **Rights-based approach:** The health sector will apply a rights-based approach. This will include commitment to the principles of equality, nondiscrimination, accountability, empowerment and participation. The health sector will safeguard the rights of employees living with disabilities. No employee will be discriminated against on the basis of known or assumed HIV status.

#### 1.7 The Values and Principles of Public Service

- (a) High standards of professional ethics;
- (b) Efficient, effective and economic use of resource;
- (c) Responsive, prompt, effective, impartial and equitable provision of services;
- (d) Involvement of the people in the process of policy making;
- (e) Accountability for administrative acts;
- (f) Transparency and provision to the public of timely accurate information;
- (g) Subject to paragraphs (h) and (i), fair competition and merit as the basis of appointments and promotions;
- (h) Representation of Kenya's diverse communities; and affording adequate and equal opportunities for appointment, training and advancement, at all levels of the public service of:-
  - (i) men and women
  - (ii) the members of all ethnic groups
  - (iii) persons with disability.

# **CHAPTER 2: POLICY CONTEXT**

This strategy was developed within the policy framework of a number of key planning and legal documents of the Government of Kenya which included the Kenya Vision 2030 and the Constitution of Kenya 2010. It also abided by the health planning documents of Ministry of Health which included the Health Policy 2012-2030 and Kenya Health Sector Strategic and Investment Plan 2013-2017.

#### 2.1 The Kenya Vision 2030

Kenya's overall development framework is guided by the Kenya Vision 2030, which is a long term policy that aims to create a "globally competitive and prosperous country with a high quality of life by 2030". The Vision aims at transforming Kenya into "a newly–industrialized, middle income country, providing a high quality of life to all its citizens in a clean and secure environment" as well as meeting the Millennium Development Goals (MDGs) by 2015.<sup>25</sup> Health is one of the components of delivering the Vision's Social Pillar given the role it plays of maintaining a healthy and skilled workforce necessary to drive the economy.

The objective of Vision 2030 in the health sector is to provide an equitable and affordable health care system of the highest possible quality. This will be achieved through three main strategies with the following flagship projects: revitalization of health infrastructure, strengthening health service delivery, and developing equitable financing mechanisms.<sup>26</sup> Vision 2030 is implemented through Medium Term Plans (MTPs) which specifies the development focus for the Government in a 5 year period.

#### 2.2 The New Constitution and Devolution

Kenya has transitioned from eight administrative provinces to the 47 County Governments in a devolution taking shape under the new constitution. In the constitution, Kenya has two levels of government: the National Government and the County Governments. According to the constitution, the governments at the national and county levels are distinct and inter-dependent and should conduct their mutual relations on the basis of consultation and cooperation. Article 174 of the Constitution identifies the objects of devolved government as the promotion of democratic and accountable exercise of power; fostering of national unity by recognizing diversity; giving of powers of self-governance to the people and enhancing of the participation of the people in the exercise of the powers of the state and in making decisions affecting them; recognizing of the right of communities to manage their own affairs and to further their development; protection and promotion of the interests and rights of minorities and marginalized communities; promotion of social and economic development and the provision of proximate, easily accessible services throughout Kenya; ensuring of equitable sharing of national and local resources throughout Kenya; the facilitation of the decentralization of state organs, their functions and services from the capital of Kenya; and enhancement of checks and balances and the separation of powers.<sup>27</sup> An Act of Parliament has established a framework for consultation and co-operation between the national and county governments, and amongst county governments. The mechanisms established for health are the Sectoral Intergovernmental Forum and the Council of County Executives for Health.

According to the constitution, the functions of the county health services are to take care of the following:

- County health facilities and pharmacies
- Ambulance services;
- Promotion of primary health care;
- Licensing and control of undertakings that sell food to the public;

<sup>&</sup>lt;sup>25</sup> Government of Kenya (2007). Kenya Vision 2030.

<sup>26</sup> Ibid

<sup>&</sup>lt;sup>27</sup> Government of Kenya (2010). The Constitution of Kenya 2010. Kenya Law Reports: Nairobi.

- Veterinary services (excluding regulation of the profession);
- Cemeteries, funeral parlours and crematoria; and
- Refuse removal, refuse dumps and solid waste disposal.

The Constitution of Kenya 2010 provides an overarching conducive legal framework for ensuring a more comprehensive and people driven health service delivery. It also seeks to ensure that a rights-based approach to health is adopted and applied in the delivery of health services. The Constitution provides that every person has the right to the highest attainable standard of health. It further outlines that a person shall not be denied emergency medical treatment and that the State shall provide appropriate social security to persons who are unable to support themselves and their dependants. It introduces a devolved system of government which would enhance access to services by all Kenyans, especially those in rural and hard to reach areas. The Constitution also singles out health care for specific groups such as children and persons living with disabilities. The underlying determinants of the right to health, such as adequate housing, food, clean safe water, social security and education, are also guaranteed in the Constitution.<sup>28</sup>

#### 2.3 Kenya Health Policy 2012-2030

Kenya Health Policy is the primary policy document providing long term direction for health in the country during 2012 – 2030. The Policy outlines the intent of the country towards attaining the overall health aspirations of the people of Kenya. The Policy is informed by the Kenya's Vision 2030, the Constitution of Kenya 2010 and the global health commitments such as the MDGs.<sup>29</sup> The policy framework has as an overarching goal of 'attaining the highest possible health standards in a manner responsive to the population needs'. The policy aims 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 Kenya Health Policy is focusing on Implementing a human rights based approach, and maximizing health contribution to overall country development.<sup>30</sup>

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 are defined each with specific strategies to enable attainment of the policy objective.

- 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.
- 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.
- 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.
- Provide essential health care. These shall be medical services that are affordable, equitable, accessible and responsive to client needs.
- 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.
- 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. 31

<sup>&</sup>lt;sup>28</sup> Ibid.

<sup>29</sup> Ibid

<sup>&</sup>lt;sup>30</sup> MOMS & MOPHS, Kenya Health Sector Strategic and Investment Plan 2013-2017.

<sup>31</sup> MOMS & MOPHS, Kenya Health Policy 2012-2017.

#### 2.4 Kenya Health Sector Strategic plan and Investment Plan (KHSSP III) 2013-2017

KHSSP 2013-2017 places emphasis on implementing intervention, and prioritizing investments relating to maternal and newborn health.<sup>32</sup>

The innovations to facilitate attainment of the KHSSP III objectives include the following:

- Ensuring a comprehensive plan that brings together all the health and related services by all
- Consolidation of all Sector Medium Term Plans into one plan. In the past, the health sector medium term focus was guided by the NHSSP II, Joint Program of Work, MTP 1, Ministry Strategies, and specific program strategic plans that were not necessarily all aligned to each other. KHSSP III now defines clearly the role of each planning tool, and how it contributes to the KHSSP III objectives.
- Redefinition of the service package (KEPH), to ensure it provides appropriate guidance to health investments and targeting of services.
- Incorporation of the environment within which the plan is being developed in the process of defining targets and interventions. As such, efforts towards implementing devolution and the right to health are an integral part of the plan implementation process, as opposed to the NHSSP II when the environmental issues were not adequately integrated into the plan.
- An M&E plan has been developed to guide follow up of implementation of the strategic objectives.33

This HRH strategy represents the 2nd Medium Term Plan of the Health Sector to support attainment of Kenya Vision 2030 with regard to HRH. One of main investment areas in the KHSSP III is investing in human resources. The plan is designed to address:

- Availability of appropriate and equitably distributed health workers.
- Attraction and retention of required health workers.
- Improving institutional and health worker performance
- Training, capacity building and development of health workforce.

<sup>&</sup>lt;sup>32</sup> KHSSP 2013-2017.

<sup>33</sup> Ibid

# CHAPTER 3: THE CURRENT HUMAN RESOURCES FOR HEALTH

Human resources for health (HRH) have long been recognized as the cornerstone of health sector to produce, deliver and manage services. The World Health Organization (WHO) defines the health workforce as "all the people engaged in actions whose primary intent is to enhance health." Inadequate staffing levels, lack of appropriate skills, poor staff attitude, low morale and weak supervision undermine the quality of public health services provided, especially at the rural health facilities. The shortage of health workers compromises service delivery and eventually health and development of a nation. Kenya health sector has inadequate crucial health staff like doctors, nurses and diagnostic scientists. In addition there are regional disparities in the distribution of the existing health workers and the hard-to-reach get disadvantaged with less staff. WHO recommends at least 23 doctors, nurses and midwives per 10,000 people. Kenya has one doctor, 12 nurses and midwives per 10,000 people.

#### 3.1 Staffing in the Government and FBOs/NGOs Health Facilities

According to Ministry of Health source, the government has 24 different cadres which include medical and non-medical personnel as shown in Appendix 2. Table 11 shows human resources classification by gender. Most cadres are dominated by men as shown in the table below. There are 110 male dentists against 103 females, 307male pharmacists against (203) females. The majority of specialist medical practitioners are male (332) as compared to (87) female. However, there are more female nurses and midwives, (15,428) compared to male (4,943).

Table 11: Human resource classification by gender

| Classification  | Males | Females | Total |
|---|-------|---------|-------|
| Clerical support workers  | 697   | 878     | 1575  |
| Community health workers  | 34    | 14      | 48    |
| Dental assistants and therapists                                | 68    | 24      | 92    |
| Dentists  | 110   | 103     | 213   |
| Dieticians and nutritionists                                    | 46    | 181     | 227   |
| Elementary occupations  | 1065  | 1158    | 2223  |
| Environmental and occupational health and hygiene professionals | 19    | 3       | 22    |
| Environmental and occupational health inspectors and associates | 1637  | 645     | 2282  |
| Generalist medical practitioners                                | 613   | 479     | 1092  |
| Health management personnel                                     | 35    | 22      | 57    |
| Health service managers   | 1491  | 551     | 2042  |
| Life science professionals                                      | 29    | 12      | 41    |
| Medical and dental prosthetic technicians                       | 54    | 24      | 78    |
| Medical and pathology laboratory technicians                    | 1254  | 721     | 1975  |
| Medical imaging and therapeutic equipment operators             | 203   | 83      | 286   |
| Medical records and health information technicians              | 310   | 224     | 534   |
| Non-health professionals not classified                         | 145   | 53      | 198   |

<sup>&</sup>lt;sup>34</sup> Everybody's business: strengthening health systems to improve health outcomes – WHO's framework for action. Geneva; World Health Organization, 2007 (http://www.who.int/healthsystems/strategy/ everybody's\_business.pdf, accessed 10 January 2009).

<sup>35</sup> MOPHS Strategic Plan 2008-2012.

<sup>&</sup>lt;sup>36</sup> WHO (2006). Taking Stock: Task Shifting to Tackle Health Workers Shortage.

<sup>&</sup>lt;sup>37</sup> Kenya Institute for Public Policy Research and Analysis (KIPPRA), 2012. Kenya Economic Report 2012.

| Classification  | Males  | Females | Total  |
|---|--------|---------|--------|
| Non-health technicians and associate professionals not classified | 355    | 92      | 447    |
| Nursing and midwifery professionals                               | 4943   | 15428   | 20371  |
| Occupational Therapist  | 199    | 79      | 278    |
| Other health service providers – interns                          | 560    | 480     | 1040   |
| -Clinical Officer   | 1935   | 1273    | 3208   |
| Pharmaceutical technicians and assistants                         | 265    | 130     | 395    |
| Pharmacists   | 307    | 203     | 510    |
| Physiotherapists  | 319    | 156     | 475    |
| Physiotherapy technicians and assistants                          | 84     | 173     | 257    |
| Plant and machine operators and assemblers                        | 845    | 143     | 988    |
| Specialist medical practitioners                                  | 332    | 87      | 419    |
| Support Service and sales workers                                 | 83     | 102     | 185    |
| Trades workers  | 13     | 10      | 23     |
| Total   | 18,050 | 23,531  | 41,581 |

Source: MOH HIS Annual Report, 2012.

According to the Annual Operational Plan 7 2011/2012, the government had a total of 1080 medical doctors and consultants while FBOs/NGOs had a total of 653. There were a total of 17075 nurses (including B.Sc. Nursing) in the government and 5832 in the FBOs/NGOs. During the same time, the government had 151 dentists while FBOs/NGOs had 61. The government had 277 pharmacists while FBOs/NGOs had 52. The greater number of health workers employed by the government and FBOs/NGOs were concentrated in Rift Valley (12,879), Central (8,752) and Nairobi (8,752). As shown in the table, the total for all the medical personnel is 58,532 as shown in Table 12.

Table 12: Medical personnel by region and ownership

| Description                             | Nai  | robi | Ea   | tern | Rift V | alley  | Nya  | anza   | Wes  | tern   | Co   | ast   | North E | astern | Cen  | tral |       | Natioan | al    |
|---|------|------|------|------|--------|--------|------|--------|------|--------|------|-------|---------|--------|------|------|-------|---------|-------|
|   | GOK  | FBO  | GOK  | FBO  | GOK    | FBO/NG | GOK  | FBO/NG | GOK  | FBO/NG | GOK  | FBO/N | GOK     | FBO    | GOK  | FBO  | GOK   | FBO/NGO | TOTAL |
|   |      | /NGO |      | /NGO |        | 0      |      | 0      |      | 0      |      | GO    |         | /NGO   |      | /NGO |       |         |       |
| Consultants (MD)                        | 159  | 154  | 45   | 4    | 109    | 15     | 38   | 18     | 24   | 8      | 40   | 3     | 7       | 0      | 55   | 49   | 477   | 251     | 728   |
| Medical Officers                        | 56   | 111  | 80   | 13   | 160    | 32     | 54   | 42     | 50   | 19     | 125  | 141   | 15      | 4      | 63   | 40   | 603   | 402     | 1005  |
| Dentists                                | 35   | 29   | 10   | 0    | 32     | 2      | 15   | 3      | 9    | 0      | 30   | 19    | 2       | 0      | 21   | 8    | 154   | 61      | 215   |
| Dental Technologists                    | 15   | 16   | 5    | 2    | 35     | 2      | 7    | 3      | 7    | 1      | 12   | 3     | 3       | 0      | 16   | 7    | 100   | 34      | 134   |
| Community Oral Health Officers          | 7    | 0    | 19   | 1    | 42     | 4      | 10   | 1      | 10   | 1      | 15   | 4     | 0       | 0      | 12   | 8    | 115   | 19      | 134   |
| Clinical Officer (Spec)                 | 92   | 75   | 143  | 3    | 347    | 11     | 68   | 28     | 75   | 6      | 82   | 13    | 14      | 3      | 100  | 26   | 921   | 165     | 1086  |
| Clinical Officers (Gen.)                | 87   | 50   | 130  | 23   | 333    | 95     | 237  | 70     | 102  | 47     | 157  | 40    | 50      | 4      | 150  | 60   | 1246  | 389     | 1635  |
| BSN Nursing officers                    | 1087 | 1078 | 20   | 7    | 406    | 48     | 130  | 16     | 2    | 2      | 205  | 28    | 1       | 0      | 220  | 94   | 2071  | 1273    | 3344  |
| Registered Nurses                       | 924  | 807  | 405  | 108  | 1207   | 317    | 769  | 264    | 394  | 114    | 846  | 98    | 160     | 11     | 393  | 443  | 5098  | 2162    | 7260  |
| Enrolled Nurses                         | 576  | 402  | 1313 | 482  | 2420   | 313    | 1347 | 387    | 1250 | 166    | 926  | 286   | 311     | 8      | 1763 | 353  | 9906  | 2397    | 12303 |
| Public Health Officers                  | 91   | 55   | 193  | 1    | 612    | 9      | 148  | 29     | 125  | 4      | 170  | 68    | 47      | 0      | 160  | 6    | 1546  | 172     | 1718  |
| Public Health Technicians               | 37   | 20   | 320  | 6    | 665    | 10     | 174  | 15     | 148  | 3      | 101  | 3     | 49      | 0      | 264  | 2    | 1758  | 59      | 1817  |
| Pharmacists                             | 30   | 29   | 43   | 2    | 55     | 1      | 23   | 5      | 34   | 1      | 49   | 4     | 4       | 0      | 39   | 10   | 277   | 52      | 329   |
| Pharm. Technologist                     | 54   | 60   | 51   | 10   | 111    | 20     | 14   | 27     | 21   | 11     | 31   | 9     | 12      | 1      | 17   | 56   | 311   | 194     | 505   |
| Lab. Technologist                       | 154  | 146  | 180  | 18   | 316    | 54     | 148  | 73     | 121  | 19     | 152  | 42    | 34      | 2      | 134  | 53   | 1239  | 407     | 1646  |
| Lab. Technician                         | 58   | 56   | 68   | 105  | 177    | 39     | 90   | 71     | 73   | 27     | 106  | 38    | 9       | 4      | 152  | 72   | 733   | 412     | 1145  |
| Orthopaedic technologists               | 15   | 10   | 33   | 1    | 26     | 0      | 11   | 9      | 10   | 3      | 15   | 9     | 2       | 0      | 16   | 8    | 128   | 40      | 168   |
| Nutritionists                           | 79   | 54   | 65   | 2    | 144    | 12     | 28   | 25     | 27   | 3      | 46   | 5     | 14      | 2      | 50   | 7    | 453   | 110     | 563   |
| Radiographers                           | 63   | 56   | 47   | 3    | 95     | 6      | 34   | 15     | 24   | 1      | 70   | 2     | 8       | 0      | 36   | 14   | 377   | 97      | 474   |
| Physiotherapists                        | 83   | 64   | 86   | 3    | 105    | 10     | 54   | 8      | 31   | 3      | 88   | 6     | 6       | 0      | 59   | 17   | 512   | 111     | 623   |
| Occupational Therapists                 | 45   | 38   | 42   | 1    | 75     | 1      | 20   | 1      | 22   | 0      | 36   | 3     | 3       | 0      | 36   | 8    | 279   | 52      | 331   |
| Plaster Technicians                     | 26   | 14   | 14   | 1    | 68     | 2      | 10   | 2      | 11   | 1      | 18   | 3     | 7       | 0      | 38   | 5    | 192   | 28      | 220   |
| Health Record & Information Officers    | 69   | 64   | 135  | 0    | 88     | 5      | 24   | 8      | 15   | 1      | 44   | 5     | 4       | 1      | 30   | 7    | 409   | 91      | 500   |
| Health Record & Information Technicians | 51   | 49   | 66   | 2    | 64     | 4      | 18   | 6      | 18   | 6      | 62   | 15    | 4       | 0      | 60   | 22   | 343   | 104     | 447   |
| Trained Community Health Workers        | 256  | 550  | 2461 | 0    | 3422   | 224    | 2506 | 15     | 3650 | 289    | 1054 | 13    | 334     | 75     | 2966 | 223  | 16649 | 1389    | 18038 |
| Social health workers                   | 32   | 27   | 21   | 5    | 66     | 1      | 6    | 12     | 304  | 1      | 9    | 0     | 1       | 0      | 10   | 9    | 449   | 55      | 504   |
| community health extension workers      | 21   | 5    | 189  | 3    | 343    | 8      | 128  | 9      | 122  | 8      | 83   | 2     | 10      | 0      | 216  | 18   | 1112  | 53      | 1165  |
| Medical engineering technologist        | 28   | 27   | 43   | 2    | 33     | 2      | 13   | 0      | 25   | 0      | 38   | 0     | 3       | 0      | 19   | 6    | 202   | 37      | 239   |
| Medical engineering technicians         | 4    | 0    | 49   | 0    | 71     | 5      | 9    | 1      | 11   | 2      | 68   | 6     | 4       | 0      | 19   | 7    | 235   | 21      | 256   |
| Total Medical                           | 4234 | 4046 | 6276 | 808  | 11627  | 1252   | 6133 | 1163   | 6715 | 747    | 4678 | 868   | 1118    | 115    | 7114 | 1638 | 47895 | 10637   | 58532 |
|   |      |      |      |      |        |        |      |        |      |        |      |       |         |        |      |      |       |         |       |

Source: Annual Operational Plan 7 2011/2012

As shown in Table 13, in 2012, drivers, secretaries and patient attendants dominated the category of non-medical staff with 2,158, 1,796 and 1,902 people respectively. As the table shows, there was a deficit in each cadre of staff.

**Table 13: Non-Medical Staff** 

| Description                   | Expected | Available | Deficit/Surplus |
|-------------------------------|----------|-----------|-----------------|
| Mortuary Attendants           | 455      | 258       | 264             |
| Patient attendants/nurse aids | 3549     | 1902      | 1463            |
| Drivers                       | 3611     | 2158      | 1719            |
| Clerks                        | 1708     | 671       | 997             |
| Cleaners                      | 1195     | 511       | 646             |
| Security                      | 745      | 365       | 403             |
| Accountants                   | 1860     | 271       | 1438            |
| Health Administrative officer | 1042     | 513       | 615             |
| Cooks                         | 1790     | 535       | 1102            |
| Secretaries                   | 3478     | 1796      | 2140            |
| Others (specify) casuals      | 1062     | 673       | 434             |

Source: Annual Operational Plan 7 2011/2012

As shown in Table 14, the number of registered key health personnel increased from 76,881 in 2008 to 105,369 in 2012, an increase of 27 percent. However, the biggest increase is seen in certain cadres such as registered and enrolled nurses. Registered nurses increased from 14,073 in 2008 to 35,148 in 2012, an increase of about 60 percent while enrolled nurses decreased from 31,915 in 2008 to 26621 in 2012, a decrease of about 20 percent. Doctors increased from 6,623 in 2008 to 8,092 in 2012, an increase of 18 percent.

**Table 14: Registered health personnel of essential cadres** 

| Registered Health Personnel  | 2008  | 2009  | 2010   | 2011  | 2012   |
|------------------------------|-------|-------|--------|-------|--------|
| Doctors                      | 6623  | 6800  | 7129   | 7549  | 8092   |
| Dentists                     | 974   | 859   | 898    | 930   | 985    |
| Pharmacists                  | 2860  | 2921  | 3097   | 2432  | 2532   |
| Pharmaceutical Technologists | 1815  | 1950  | 2233   | 4436  | 5236   |
| BSC Nursing                  | 657   | 863   | 988    | 1173  | 1532   |
| Registered Nurses            | 14073 | 26988 | 29678  | 31719 | 35148  |
| Enrolled Nurses              | 31915 | 34032 | 34282  | 24375 | 26621  |
| Clinical Officers            | 5035  | 7816  | 8598   | 9793  | 11185  |
| Public Health Officers       | 6960  | 7192  | 7429   | 7584  | 8069   |
| Public Health Technicians    | 5969  | 5969  | 5969   | 5969  | 5969   |
| Total                        | 76881 | 95390 | 100301 | 95960 | 105369 |

Source: Economic Survey, 2013

The number of doctors per 100,000 rose from 17 in 2008 to 20 in 2012. The WHO recommended minimum is 20 per 100,000 people. On the other hand, the number of nurses rose from 122 in 2008 to 155 per 100,000 people in 2012. However, there are many doctors and nurses in administrative positions in both public and private sectors in addition to those who dropped out of the service through attrition. The table below shows some of the cadres.

**Table 15: Registered health personnel** 

| No. per 100,000 population   | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------------------------|------|------|------|------|------|
| Doctors                      | 17   | 18   | 18   | 19   | 20   |
| Dentists                     | 3    | 2    | 2    | 2    | 2    |
| Pharmacists                  | 7    | 8    | 8    | 6    | 6    |
| Pharmaceutical Technologists | 5    | 5    | 6    | 11   | 13   |
| BSC Nursing                  | 2    | 2    | 2    | 3    | 4    |
| Registered Nurses            | 37   | 70   | 75   | 80   | 86   |
| Enrolled Nurses              | 83   | 88   | 86   | 62   | 65   |
| Clinical Officers            | 13   | 20   | 22   | 25   | 28   |
| Public Health Officers       | 18   | 19   | 19   | 19   | 20   |
| Public Health Technicians    | 16   | 15   | 15   | 15   | 15   |

Source: Economic Survey, 2012

Table 16 shows the number of staff by level of care. There were a total of 68,185 health workers out of which 57,548 are government and 10,637 are faith-based. The distribution by level of care shows that there were a total of 14, 207 health workers at the community level, and 13,555 at the primary care level, 12,361 at the county level and 7,772 at the national level. The distribution across the board shows there were 1,005 medical officers, 215 dentists, 7,260 registered nurses, 12,303 enrolled nurses, and 2,721 clinical officers (both general and specialized).

According to KHSSP 2013-2017, information on staff numbers in the private for profit facilities were not known, though the numbers were said to be higher than for those in the faith based facilities. Public sector has more than 6 times the staff numbers in the Faith based providers. Community Health Workers and enrolled nurses (focused on community based health services) account for over

half of the existing staff numbers. As shown in the table, the total health workers are about 17 per 10,000 people. Medical staff represents over 5 per 10,000 people. Their distribution is not equitable in many areas of the country leading to significant health workforce gaps.

**Table 16: Number of staff by level of care** 

|    |   | Numbers by level of care Numbers by or |                 |                    |                       | by owner | y owner        |        |                          |
|----|---|--|-----------------|--------------------|-----------------------|----------|----------------|--------|--------------------------|
|    | Staff cadres                            | Community                              | Primary<br>Care | County<br>Hospital | National<br>Hospitals | Public   | Faith<br>Based | Total  | 10,000<br>populati<br>on |
| 1  | Specialists (Medical / Public Health)   | -                                      | 1               | 149                | 327                   | 477      | 251            | 728    | 0.18                     |
| 2  | Medical Officers                        | -                                      | 55              | 342                | 206                   | 603      | 402            | 1,005  | 0.25                     |
| 3  | Dentists                                | -                                      | 7               | 79                 | 68                    | 154      | 61             | 215    | 0.05                     |
| 4  | Dental Technologists                    | -                                      | 1               | 50                 | 49                    | 100      | 34             | 134    | 0.03                     |
| 5  | Community Oral Health Officers          | -                                      | 13              | 86                 | 16                    | 115      | 19             | 134    | 0.03                     |
| 6  | Clinical Officer (Spec)                 | -                                      | 65              | 583                | 273                   | 921      | 165            | 1,086  | 0.27                     |
| 7  | Clinical Officers (Gen.)                | -                                      | 332             | 770                | 144                   | 1,246    | 389            | 1,635  | 0.41                     |
| 8  | BSN Nursing officers                    | 1                                      | 58              | 323                | 1,689                 | 2,071    | 1,273          | 3,344  | 0.84                     |
| 9  | Registered Nurses                       | 5                                      | 1,192           | 2,122              | 1,779                 | 5,098    | 2,162          | 7,260  | 1.82                     |
| 10 | Enrolled Nurses                         | 18                                     | 4,840           | 3,797              | 1,251                 | 9,906    | 2,397          | 12,303 | 3.08                     |
| 11 | Public Health Officers                  | 149                                    | 930             | 384                | 83                    | 1,546    | 172            | 1,718  | 0.43                     |
| 12 | Public Health Technicians               | 289                                    | 1,255           | 180                | 34                    | 1,758    | 59             | 1,817  | 0.45                     |
| 13 | Pharmacists                             | -                                      | 27              | 170                | 80                    | 277      | 52             | 329    | 0.08                     |
| 14 | Pharm. Technologist                     | -                                      | 49              | 154                | 108                   | 311      | 194            | 505    | 0.13                     |
| 15 | Lab. Technologist                       | -                                      | 292             | 567                | 380                   | 1,239    | 407            | 1,646  | 0.41                     |
| 16 | Lab. Technician                         | -                                      | 354             | 273                | 106                   | 733      | 412            | 1,145  | 0.29                     |
| 17 | Orthopaedic technologists               | -                                      | 8               | 72                 | 48                    | 128      | 40             | 168    | 0.04                     |
| 18 | Nutritionists                           | -                                      | 106             | 217                | 130                   | 453      | 110            | 563    | 0.14                     |
| 19 | Radiographers                           | 1                                      | 29              | 194                | 153                   | 377      | 97             | 474    | 0.12                     |
| 20 | Physiotherapists                        | -                                      | 55              | 268                | 189                   | 512      | 111            | 623    | 0.16                     |
| 21 | Occupational Therapists                 | -                                      | 20              | 149                | 110                   | 279      | 52             | 331    | 0.08                     |
| 22 | Plaster Technicians                     | -                                      | 10              | 112                | 70                    | 192      | 28             | 220    | 0.06                     |
| 23 | Health Record & Information Officers    | -                                      | 110             | 164                | 135                   | 409      | 91             | 500    | 0.13                     |
| 24 | Health Record & Information Technicians | -                                      | 63              | 175                | 105                   | 343      | 104            | 447    | 0.11                     |
| 25 | Trained Community Health Workers        | 12,949                                 | 3,096           | 570                | 34                    | 16,649   | 1,389          | 18,038 | 4.51                     |
| 26 | Social health workers                   | 300                                    | 16              | 56                 | 77                    | 449      | 55             | 504    | 0.13                     |
| 27 | community health extension workers      | 483                                    | 512             | 107                | 10                    | 1,112    | 53             | 1,165  | 0.29                     |
| 28 | Medical engineering technologist        | 12                                     | 10              | 113                | 67                    | 202      | 37             | 239    | 0.06                     |
| 29 | Medical engineering technicians         | -                                      | 49              | 135                | 51                    | 235      | 21             | 256    | 0.06                     |
| 30 | Mortuary attendants                     |  | -               |                    | -                     | 258      |                | 258    | 0.06                     |
| 31 | Patient attendants                      |  | -               |                    | -                     | 1,902    |                | 1,902  | 0.48                     |
| 32 | Drivers                                 |  | -               |                    | -                     | 2,158    |                | 2,158  | 0.54                     |
| 33 | Clerks                                  |  | -               |                    | -                     | 671      |                | 671    | 0.17                     |
| 34 | Cleaners                                |  | -               |                    | -                     | 511      |                | 511    | 0.13                     |
| 35 | Security                                |  | -               |                    | -                     | 365      |                | 365    | 0.09                     |
| 36 | Accountants                             |  | -               |                    | -                     | 271      |                | 271    | 0.07                     |
| 37 | Administrators                          |  | -               |                    | -                     | 513      |                | 513    | 0.13                     |
| 38 | Cooks                                   |  | -               |                    | -                     | 535      |                | 535    | 0.13                     |
| 39 | Secretaries                             |  | -               |                    | -                     | 1,796    |                | 1,796  | 0.45                     |
| 40 | Casuals                                 |  | -               |                    | -                     | 673      |                | 673    | 0.17                     |
|    | TOTAL                                   | 14,207                                 | 13,555          | 12,361             | 7,772                 | 57,548   | 10,637         | 68,185 | 17.05                    |

Source: KHSSP 2013-2017.

#### 3.2 Staffing at KNH and MTRH

#### 3.2.1 Kenyatta National Hospital (KNH)

Kenyatta National Hospital is the first and largest referral and teaching hospital in Kenya. According to the Report on health workforce mapping at KNH, 2013, the hospital had a total of 4,293 staff. The nurses were the leading cadre with 1557 (36.3%), followed by the support staff and clerical staff at 992(23.1%) and at 299 (7%) respectively.

**Table 17: Number of health workers at KNH according to cadres** 

|                | Frequency | Percent |
|----------------|-----------|---------|
| Nurses         | 1,557     | 36.3    |
| Support staff  | 992       | 23.1    |
| Clerical staff | 299       | 7.0     |

|                              | Frequency | Percent |
|------------------------------|-----------|---------|
| Doctors                      | 155       | 3.6     |
| Laboratory technologists     | 138       | 3.2     |
| Health Information           | 116       | 2.7     |
| Artisans                     | 116       | 2.7     |
| Accounts & Administration    | 85        | 2.0     |
| CSSD/ Theatre assistants     | 76        | 1.8     |
| Security staff               | 75        | 1.8     |
| Porters                      | 68        | 1.6     |
| Clinical Officers            | 64        | 1.5     |
| Physiotherapy                | 63        | 1.5     |
| Radiographers                | 47        | 1.1     |
| Pharmaceutical technologists | 42        | 1.0     |
| Occupational therapy         | 35        | 0.8     |
| Nutrition                    | 32        | 0.8     |
| Orthopaedic technicians      | 31        | 0.7     |
| Procurement officers         | 29        | 0.7     |
| Social workers               | 24        | 0.6     |
| Public health officers       | 22        | 0.5     |
| Dentists                     | 21        | 0.5     |
| Medical engineering          | 19        | 0.4     |
| Mortuary/ Farewell home      | 17        | 0.4     |
| Dental technicians           | 14        | 0.3     |
| Pharmacists                  | 12        | 0.3     |
| Other                        | 144       | 3.4     |
| Total                        | 4,293     | 100.0   |

Source: Report on Health Workforce Mapping at KNH, June 2013

#### 3.2.2 Moi Teaching and Referral Hospital (MTRH)

Moi Teaching and Referral Hospital (MTRH) is the second largest referral and teaching hospital in Kenya and by 2010 it had staff numbering 3,066 against the required 2,910. In 2010 the vacancy rate stood at -5, meaning that the hospital did succeed in significantly reducing vacancy rates. However, vacancies still existed in some essential cadres such as nurses (21 percent) and laboratory technicians (5 percent) as shown in Table 18.

**Table 18: Moi Teaching and Referral Hospital (MTRH)** 

| Cadre                    | Required | Available<br>2008 | Available<br>2010 | % Increase<br>between<br>2008 and<br>2010 | 2010<br>Vacancy<br>Rates (%) |
|--------------------------|----------|-------------------|-------------------|---|------------------------------|
| Medical officers and     |          |                   |                   |   |                              |
| specialists              | 92       | 51                | 117               | 129                                       | (27)                         |
| Dentists                 | 6        | 5                 | 6                 | 20  | _                            |
| Pharmacists              | 4        | 4                 | 9                 | 125                                       | (125)                        |
| Nurses                   | 916      | 664               | 728               | 10  | 21                           |
| Clinical Officers        | 78       | 65                | 112               | 72  | (44)                         |
| Lab Techs                | 153      | 133               | 145               | 9   | 5                            |
| Pharm technologists      | 35       | 37                | 73                | 97  | (109)                        |
| Radiographers            | 30       | 30                | 29                | (3)                                       | 3                            |
| Nutrition officers       | 59       | 42                | 50                | 19  | 15                           |
| Physiotherapists         | 65       | 34                | 42                | 24  | 35                           |
| Occupational Therapist   | 62       | 13                | 38                | 192                                       | 39                           |
| Medical records Officers | 56       | 45                | 49                | 9   | 13                           |
| Public health Officers / |          |                   |                   |   |                              |
| techs                    | 29       | 25                | 26                | 4   | 10                           |
| Others*                  | 1,326    | 1,201             | 1,642             | 37  | (24)                         |
| Total                    | 2,911    | 2,349             | 3,066             | 31  | (5)                          |

Source: National HRH Annual Report 2010.

#### 3.3 HRH in Private and FBO Facilities

#### 3.1.1 Christian Health Association of Kenya (CHAK) Hospitals

In 2010 the health facilities under the Christian Health Association of Kenya (CHAK) had a total of 2,056 staff including 135 doctors, 995 nurses and 575 allied health staff as shown in Table 19. The nurses were the leading cadre. The CHAK health facilities where the information was obtained included 18 hospitals, 30 health centres and 45 dispensaries.<sup>38</sup>

**Table 19: Staff of CHAK Hospitals, December 2010** 

| Cadre                   | Number of Staff |
|-------------------------|-----------------|
| Doctors                 | 135             |
| Nurses                  | 995             |
| Allied Health Staff     | 575             |
| Admin and support Staff | 351             |
| Total                   | 2,056           |

Source: MOH & MOPHS, HRH Annual Report 2010.

#### 3.3.2 Muslim Health Secretariat Health Facilities

The 18 health facilities under the auspices of the Muslim Health Secretariat employed a total of 148 staff including 9 doctors, 38 nurses and 22 allied health staff as of 2010. Administration and support staff dominated the establishment with 79 staff followed distantly by nurses with 38 staff (Table 20).

<sup>\*</sup>Includes staff from various functions such as admin, finance, supplies, engineering, security and subordinate staff.

<sup>&</sup>lt;sup>38</sup> MOH National HRH Annual Report, 2010.

**Table 20: Staff of Muslim Health Secretariat Health Facilities** 

| Cadre                   | Number of Staff |
|-------------------------|-----------------|
| Doctors                 | 9               |
| Nurses                  | 38              |
| Allied Health Staff     | 22              |
| Admin and support Staff | 79              |
| Total                   | 148             |

Source: National HRH Annual Report, 2010.

#### 3.3.3 Aga Khan University Hospitals (Nairobi, Mombasa and Kisumu)

The total staff at Aga Khan University Hospital in Nairobi stood at 1,509 in 2010, an increase of 10 percent from 1,367 in 2008. There was a remarkable increase in all cadres at the facility including those at the faculty, but the biggest increase was from the faculty (39 percent and doctors (27 percent) as shown in Table 21.

**Table 21: Summary of total staff of Aga Khan University Hospitals, 2010 (Permanent)** 

| Cadre                   | Nairobi | Mombasa | Kisumu | Total |
|-------------------------|---------|---------|--------|-------|
| Doctors                 | 66      | 16      | 20     | 102   |
| Faculty*                | 57      | -       | -      | 57    |
| Nurses                  | 378     | 118     | 100    | 596   |
| Allied Health Staff     | 207     | 44      | 39     | 290   |
| Admin and Support Staff | 801     | 158     | 100    | 1,059 |
| Total                   | 1,509   | 336     | 259    | 2,104 |

Source: HRH Annual Report 2010.

#### 3.3.4 Nairobi Hospital

Nairobi Hospital is one of the largest and well equipped private health facilities in Kenya. In 2010 it had a total of 1,161 permanent staff including 33 doctors, 497 nurses and 161 allied health staff as shown in Table 22.

**Table 22: Permanent Staff of Nairobi Hospital** 

| Cadre                   | Number of Staff |
|-------------------------|-----------------|
| Doctors                 | 33              |
| Nurses                  | 497             |
| Allied Health Staff     | 161             |
| Admin and support Staff | 470             |
| Total                   | 1,161           |

Source: HRH Annual Report 2010.

#### 3.3.5 Kenya Conference of Catholic Bishops (KCCB)

The Kenya Conference of Catholic Bishops (KCCB) currently runs 438 health facilities across the country. In 2014 KCCB had a staff compliment of 9323; 2750 (29.5%) of whom were Nurses; 36 Dentists (4%); and 429 Doctors. This represented a 167% growth on the 2011 compliment (Table 23).

**Table 23: KCCB Personnel** 

| Table 25. RCCD i ersonner |      |      |      |      |  |  |  |
|---------------------------|------|------|------|------|--|--|--|
|                           | 2011 | 2012 | 2013 | 2014 |  |  |  |
| Doctors                   | 317  | 419  | 425  | 429  |  |  |  |
| Dentists                  | 32   | 42   | 38   | 36   |  |  |  |
| Nurses                    | 1646 | 2084 | 2715 | 2750 |  |  |  |
| RCO's                     | 417  | 638  | 764  | 888  |  |  |  |
| Pharmacists               | 615  | 719  | 728  | 830  |  |  |  |

|                         | 2011 | 2012 | 2013 | 2014 |
|-------------------------|------|------|------|------|
| Lab Tech                | 329  | 336  | 343  | 455  |
| Admin                   | 103  | 293  | 398  | 398  |
| Nutritionists           | 36   | 58   | 112  | 103  |
| HTC's                   | 14   | 42   | 79   | 102  |
| Data Clerks             | 27   | 38   | 39   | 64   |
| Support Staff           | 673  | 1224 | 1598 | 1598 |
| Sub – total             | 4209 | 5893 | 7239 | 7653 |
| Others                  |      |      |      |      |
| Oral health officers    | 18   | 29   | 30   | 34   |
| Radiographers           | 27   | 31   | 42   | 42   |
| Physiotherapists        | 4    | 15   | 18   | 18   |
| Occupational therapists | 12   | 8    | 7    | 21   |
| Orthopedic technicians  | 6    | 5    | 4    | 4    |
| Total- Nairobi          | 67   | 88   | 101  | 119  |
| Other Diocese           | 1305 | 1381 | 1436 | 1551 |
| Sub- total              | 1372 | 1469 | 1537 | 1670 |
| GRAND TOTAL             | 5581 | 7362 | 8776 | 9323 |

Source: KCCB 2014

Of 438 health facilities: 61 are Hospitals; 313 Dispensaries; 81 Health centers; and 2 Clinics. The highest number of health facilities are in Nairobi (59) followed by Meru (33), and Machakos (32) respectively. KCCB runs two clinics: at Garissa and Kitale. Nairobi had the highest number of dispensaries (52), followed by Machakos (28) and Lodwar (23) respectively (Table 24).

Table 24: KCCB Distribution of health facilities by Diocese

| Diocese  | Hospitals | Dispensaries | <b>Health Centres</b> | Clinics | Total |
|----------|-----------|--------------|-----------------------|---------|-------|
| Bungoma  | 2         | 3            | 2                     | -       | 7     |
| Eldoret  | 3         | 14           | 9                     | -       | 26    |
| Embu     | 2         | 9            | -                     |         | 11    |
| Garissa  | -         | 7            | 2                     | 1       | 10    |
| Homa Bay | 2         | 8            | 13                    | -       | 23    |
| Isiolo   | -         | 6            | -                     |         | 6     |
| Kakamega | 2         | 6            | 5                     | -       | 13    |
| Kericho  | 1         | 4            | 2                     | -       | 7     |
| Kisii    | 2         | 9            | 4                     | -       | 15    |
| Kisumu   | 3         | 5            | 6                     | -       | 14    |
| Kitale   | 2         | 7            | -                     | 1       | 10    |
| Kitui    | 2         | 9            | -                     | -       | 11    |
| Lodwar   | 1         | 23           | 2                     | -       | 26    |
| Machakos | 3         | 28           | 1                     | -       | 32    |
| Malindi  | -         | 6            | 1                     | -       | 7     |
| Maralal  | 1         | 7            | 2                     | -       | 10    |
| Marsabit | 2         | 6            | 2                     | -       | 10    |
| Meru     | 7         | 21           | 5                     | -       | 33    |
| Mombasa  | -         | 12           | 2                     | -       | 14    |
| Muranga  | 3         | 17           | 3                     | -       | 23    |
| Nairobi  | 17        | 52           | 9                     | -       | 59    |

| Diocese                     | Hospitals | Dispensaries | <b>Health Centres</b> | Clinics | Total |
|-----------------------------|-----------|--------------|-----------------------|---------|-------|
| Nakuru                      | 1         | 15           | 6                     | -       | 22    |
| Ngong                       | 2         | 11           | 5                     | -       | 18    |
| Nyahururu                   | 1         | 15           | -                     | -       | 16    |
| Nyeri                       | 2         | 13           | -                     | -       | 15    |
| Totals<br>Source: KCCB 2014 | 61        | 313          | 81                    | 2       | 438   |

#### 3.4 Medical Training

#### 3.4.1 Institutions Offering Pre-service Training

Institutions offering health related training have increased tremendously. These institutions are owned by the government, FBOs/NGOs and private sector, and consist of universities (offering diplomas, and graduate and post graduate courses) and middle level colleges (offering certificate and diplomas). However, the annual output of health workforce has risen steadily in recent years due to the rapid growth of health training institutions.

There are four medical training institutions for Medical Officers in Kenya. They include Nairobi, Moi, Kenyatta and Egerton Universities. The medical degree course takes a total of six academic years and one year of internship. The University of Nairobi is the sole training institution for dentists. The dental degrees take five academic years plus one-year of internship. On the other hand there are 70 institutions accredited by the Nursing Council of Kenya (NCK) to train nurses, out of which 68 are actively training enrolled, registered and bachelor's degree cadre of nurses. Enrolled nurses earn a certificate in two years of study, registered nurses a diploma over a period of three years, and Bachelor of Science in Nursing (BScN) takes four years, with an additional year of internship. Currently, the NCK has approved 6 institutions to teach enrolled nursing, 53 institutions to teach registered nursing, and 9 to offer BScN across Kenya. There are 33 public nurse training institutions, out of which 23 are Medical Training Colleges (MTCs).

Training institutions for Clinical Officers, registered and accredited by the Clinical Officers Council (COC) are 35as at June 2014. Kenya Medical Training Colleges (KMTCs) which are government sponsored are nineteen (19) institutions accounting for 54.3% of Clinical Officers training institutions in the country. Others include four (4) government sponsored, seven (7) private colleges and five (5) faith-based institutions. Training is both at degree (Bachelor of Science in Clinical Medicine and Surgery) and diploma level in Clinical Medicine and surgery which requires them to undergo four years and three years of schooling respectively plus one year internship. In 2010, Mt. Kenya University was the first to offer the degree programme. Egerton University, JKUAT, Great Lakes and Uzima University have started following suit. So far one hundred and seventeen (117) graduates have been trained.

Some of the training institutions such as Mt. Kenya University are set to start offering specialized medical training at degree level. Mt. Kenya University has been offering other medical and health related courses (e.g. Bachelors in Clinical Medicine).

There are 25 institutions approved by the Kenya Medical Laboratory Technicians and Technologist Board (KMLTTB) to train laboratory technicians and technologists in the country. Laboratory technicians earn a certificate after two years of training, and technologists earn a diploma in three years and a degree after four years of training. Six of these training institutions offer certificate and diploma programs, fourteen offer only diplomas and five offer degrees.

Table 25 shows the key health training institutions in Kenya and the pre-service courses they offered as of 2010. As shown in the table, nurses cut across all training institutions with University of Nairobi, Kenya University, Moi University and Egerton University training doctors.

**Table 25: Key Health Training Institutions and Courses Offered** 

| Health Training Institution                                      | Cadre Trained  |
|--|--|
| Kenya Medical Training College (KMTC)                            | See Annex 1 for courses offered  |
| University of Nairobi Medical School                             | Doctors, Dentists, Nurses, Medical Specialists and Pharmacists   |
| Moi University Medical School                                    | Doctors and Nurses, medical specialists  |
| Kenyatta University  | Doctors, Pharmacists, Nursing, MOPH Records and Information<br>Management, Medical Laboratory Sciences and Health Services<br>Management |
| Egerton University Medical School                                | Doctors, Pharmacists and Clinical Officers   |
| Kenya Methodist University (KeMU)                                | Nurses and Clinical Officers   |
| Great Lakes University of Kisumu (GLUK)                          | Nurses, Clinical Officers and MPH  |
| FBO Pre-Service Schools, e.g. PCEA Tumu Tumu and Kendu Adventist | Nurses, Clinical Officers and Lab Technologists  |
| Aga Khan University Hospital                                     | Nurses and Medical Specialists   |
| Nairobi Hospital   | Nurses   |
| University of E. Africa at Baraton                               | Nurses   |

Source: MOH National HR Annual Report 2010.

#### 3.4.2 Training Output at Graduate and Postgraduate Level

Table 26 shows the undergraduate medical students by course for the academic years 2008/09 – 2012/2013. As shown in the table, enrollment rose from 4,009 in 2008/09 academic year to 7,513 in 2012/2013 academic year, translating to an increase of about 47 percent. The course with most enrollment was medicine & surgery which had an enrollment of 2,095 students in 2008/09 rising to 3,170 in 2012/13, an increase of about 34 percent. Postgraduate enrollment was 695 students in 2008/09 academic before rising to 1,334 in 2010/2011 and declining to 818 in 2012/13. Between 2008/09 and 2012/13 postgraduate enrollment declined by 11 percent.

Table 26: Undergraduate and post graduate medical students by course 2008/09-2012/13

| table 20. Offdergraduate and post graduate medical students by course 2000/05 2012/15 |         |         |         |         |         |  |
|---|---------|---------|---------|---------|---------|--|
| Undergraduate   | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 |  |
| Medicine & Surgery  | 2095    | 2220    | 2391    | 2472    | 3170    |  |
| BSc (Nursing)   | 904     | 916     | 1667    | 1932    | 2149    |  |
| Dental Surgery  | 116     | 199     | 194     | 218     | 268     |  |
| Environmental Health  | 207     | 226     | 519     | 540     | 1080    |  |
| Pharmacy  | 335     | 360     | 486     | 298     | 466     |  |
| BSc (Biochemistry)  | 352     | 373     | 1056    | 501     | 380     |  |
| Sub-total   | 4,009   | 4,294   | 6,313   | 5,961   | 7,513   |  |
| Postgraduate students   | 695     | 583     | 1334    | 585     | 618     |  |
| <b>Grand Total</b>  | 4,704   | 4,877   | 7,647   | 6,546   | 8,131   |  |

Source: Economic Survey, 2013.

The National HRH Annual Report 2010 show that an average of 360 doctors graduate annually from the Kenyan universities. As shown in the table, the number of doctors graduating from University of Nairobi rose from 230 in 2006 to 274 in 2009. The number of graduates was at its peak in 2007 when 332 doctors graduated from the same university. Moi University has witnessed a steady rise in the number of graduating doctors. In 2006 the number stood at 32 but rose to 86 in 2009. The number of doctors who graduated from University of Nairobi and Moi University between 2006 and 2009 totalled to 1,344 (Table 27).

**Table 27: Number of doctors graduating from University of Nairobi and Moi University** 

| Year  | Nairobi University | Moi University | Total |
|-------|--------------------|----------------|-------|
| 2006  | 230                | 32             | 262   |
| 2007  | 332                | 45             | 377   |
| 2008  | 277                | 68             | 345   |
| 2009  | 274                | 86             | 360   |
| Total | 1,113              | 231            | 1,344 |

Source: MOH National HRH Annual Report 2010.

As Table 28 shows, the number of pharmacists and dentists who graduated from University of Nairobi rose from 58 in 2006 to 67 in 2010, an increase of about 13 percent. However, the largest number (77) graduated in 2007. On the other hand, the number of dentists who graduated from the same university has continued to show an erratic trend. The number graduating in 2006 was 28 before increasing to 33 and 36 in 2008 and 2009 respectively. However, the number dropped to 25 in 2010. No statistics were available for 2011 and 2012.

**Table 28: Number of Pharmacists and Dentists graduating from University of Nairobi** 

| Year  | Number of Graduates |          |  |  |  |
|-------|---------------------|----------|--|--|--|
|       | Pharmacists         | Dentists |  |  |  |
| 2006  | 58                  | 28       |  |  |  |
| 2007  | 78                  | 33       |  |  |  |
| 2008  | 77                  | 36       |  |  |  |
| 2009  | 61                  | 30       |  |  |  |
| 2010  | 67                  | 25       |  |  |  |
| Total | 341                 | 152      |  |  |  |

Source: MOH National HRH Annual Report 2010.

University of Nairobi is the premier institution in Kenya offering specialized training of medical personnel and has continued to produce specialists in various cadres at the graduate level as shown in Table 29.

**Table 29: Medical specialists** 

| Cadre   | 2007 | 2008 | 2009 | 2010 |
|---|------|------|------|------|
| Master of Pharmacy                                      | 1    | 7    | 15   | 9    |
| Msc. Nursing  | 4    | 5    | 9    | 7    |
| MPH   | 7    | 10   | 2    | 13   |
| Masters in Anaesthesia                                  | 8    | 8    | 8    | 10   |
| Masters in Obstetrics and Gynaecology                   | 24   | 11   | 14   | 16   |
| Masters in General Surgery                              | 15   | 5    | 12   | 3    |
| Masters in Internal Medicine                            | 14   | 18   | 23   | 4    |
| Masters in Psychiatry                                   | 3    | 2    | 3    | 2    |
| Masters in Ophthalmology                                | 6    | 12   | 12   | 5    |
| Masters in ENT  | 8    | 3    | 6    | 3    |
| Masters in Paediatrics                                  | 8    | 7    | 13   |      |
| Masters in Diagnostic Imaging and Radiation<br>Medicine | 7    | 5    | 15   | 1    |
| Msc. In Medical Microbiology                            | 3    | 3    | 1    |      |
| Msc. in Clinical Psychology                             | 3    | 16   | 1    | 5    |
| Msc. in Pathology                                       |      | 5    | 3    | 7    |
| Masters in Dentistry - Maxilofacial Surgery             | 3    | 1    | 3    | 2    |
| Masters in Dentistry - Paediatric Dentistry             | 2    | 1    | 3    | 1    |
| Masters in Dentistry - Prosthodontics                   |      |      |      | 3    |
| Masters in Dentistry - Periodonthology                  |      |      |      | 1    |

Source: MOH National HRH Annual Report 2010.

The HRH Report 2010 indicates that majority of registered active doctors were trained at University of Nairobi (about 69 percent) and to a lesser extent, Moi University (8 percent). Even if current statistics were available, the two institutions were the main source of registered doctors in Kenya. However, there are many who have graduated from other universities across the world as shown in Table 30.

**Table 30: Active Registered Doctors by College of Training** 

| College   | %    |
|---|------|
| University of Nairobi   | 68.6 |
| Moi University  | 8.0  |
| Makerere University   | 3.0  |
| University of Mumbai (University of Bombay)   | 1.2  |
| Gujarat University  | 0.9  |
| Peoples Friendship University of Russia (Patrice Lumumba Peoples Friendship University) | 0.8  |
| University Of Punjab  | 0.8  |
| Saurashtra University   | 0.6  |
| University of Mysore  | 0.5  |
| Nizhny Novgorod State Medical Academy   | 0.4  |
| University of Dar es Salaam   | 0.4  |
| University of Poona   | 0.4  |
| University of London  | 0.3  |
| Others  | 14.4 |

Source: MOH National HRH Annual Report 2010.

#### 3.4.3 Training Output in Middle Level Public Colleges

As Table 31 shows, middle level medical training colleges have continued to produce graduates at certificate, diploma and higher diploma levels. The total trainees in the middle level public colleges rose from 6,090 in 2008 to 7,606 in 2012, an increase of almost 20 percent. The majority of trainees were taking diploma followed by certificate courses.

Table 31: Middle level trainees in public medical training colleges

| Level of training | 2008  | 2009 | 2010  | 2011  | 2012  |
|-------------------|-------|------|-------|-------|-------|
| Certificate       | 570   | 437  | 903   | 1,178 | 1,303 |
| Diploma           | 5,088 | 4899 | 5,231 | 4,238 | 5,713 |
| Higher diploma    | 432   | 379  | 337   | 724   | 589   |
| Total             | 6,090 | 5715 | 6,471 | 6,140 | 7,606 |

Source: Economic Survey, 2013

Table 32 shows that there was a great demand for health training courses offered at the KMTC, with demand outstripping the supply in all the four years as shown in the table. In 2011 for instance, out of 24,574 qualified applicants, only 6,125 were enrolled. There was significant number of qualified but not successful in being enrolled, which totalled to 18,449.

Table 32: Training gaps in Kenya Medical Training College 2008-2011

| Year   | 2008   | 2009   | 2010   | 2011   |
|--|--------|--------|--------|--------|
| Enrolled applicants                            | 4,080  | 4,623  | 5,418  | 6,125  |
| Qualified applicants                           | 21,617 | 20,000 | 18,294 | 24,574 |
| Qualified but not successful in being enrolled | 17,537 | 15,347 | 12,876 | 18,449 |

Source: Database of Kenya Medical Training College, Nairobi (2011).

Table 33 shows that the number of some key health personnel is reducing by a big percentage. For instance, during the period 2008/9 and 2009/10, doctors reduced by 23 percent, pharmaceutical technologists by 59 percent, clinical officers by 29 percent and public health officers by 52 percent. However, registered nurses increased by about 8 percent, BSc Nursing by about 12 percent and dentists by 31 percent. With devolution of health services to the counties, discontent within the

medical fraternity is growing with key health personnel opting to leave the public service for greener pastures in private/not-for-profit sectors or quit as practitioners altogether. This has a lot of implications for human resources for health.<sup>39</sup>

**Table 33: Number of health workers in training** 

| Personnel                    | 2008/09 | 2009/10 | Percentage change |  |  |  |  |
|------------------------------|---------|---------|-------------------|--|--|--|--|
| Doctors                      | 3172    | 2437    | -23.17            |  |  |  |  |
| Dentists                     | 152     | 199     | 30.92             |  |  |  |  |
| Pharmacists                  | 339     | 349     | 2.95              |  |  |  |  |
| Pharmaceutical Technologists | 509     | 207     | -59.33            |  |  |  |  |
| BSc Nursing                  | 731     | 818     | 11.9              |  |  |  |  |
| Registered Nurses            | 1847    | 1989    | 7.69              |  |  |  |  |
| Clinical Officers            | 1509    | 1076    | -28.69            |  |  |  |  |
| Public Health Officers       | 666     | 322     | 51.65             |  |  |  |  |

Source: Kiambati et al. (2013).

The Kenya Medical Training College (KMTC) has continued to offer a number of post-basic specialization courses for diploma holders for various health professionals as shown in Table 34, with the majority of graduates being dental technologists.

**Table 34: Post-basic graduates from KMT** 

| PROGRAMME   | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|------|------|------|------|------|
| Higher Diploma in Medical Education                       | 3    | 5    | 3    | 58   | 24   |
| Higher Diploma in Critical Care Nursing                   |      |      |      | 19   | 23   |
| Dental Technologists                                      | 44   | 26   | 30   | 28   | 21   |
| Higher Diploma in Public Health Education &               |      |      |      |      |      |
| Promotion   | 19   | 19   | 22   | 27   | 21   |
| Higher Diploma in Microbiology                            | 8    | 9    | 4    | 11   | 20   |
| Higher Diploma Psychiatric Nursing                        | 19   | 21   | 19   | 20   | 17   |
| Higher Diploma in Peri-operative nursing                  | -    | -    | -    | 7    | 16   |
| Higher Diploma in Medical Imaging Sciences-<br>Ultrasound |      | 12   | 13   | 16   | 16   |
| Higher Diploma in Occupational Health &                   |      |      |      |      |      |
| Safety  | 12   | 10   | 10   | 8    | 14   |
| Higher Diploma in Haematology                             | 7    | 10   | 7    | 6    | 10   |
| Clinical Medicine -(Paediatrics                           | 20   | 14   | 22   | 12   | 8    |
| Clinical Medicine -Reproductive Health                    | 11   | 12   | 13   | 9    | 6    |
| Clinical Medicine - ENT                                   | 8    | 11   | 9    | 0    | 6    |
| Higher Diploma in Food Science and Inspection             | 11   | 7    | 5    | 10   | 6    |
| Higher Diploma in Blood Transfusion                       | 8    | 10   | 8    | 9    | 5    |
| Higher Diploma in Clinical Chemistry                      | 5    | 10   | 6    | 3    | 4    |
| Higher Diploma in Parasitology/Entomology                 | 5    | 8    | 5    | 4    | 4    |
| Higher Diploma in Community Health Nursing                | 24   | 23   | 18   | 17   | 0    |

Source: MOH National HRH Annual Report 2010.

Data from Nursing Council of Kenya shows that public training institutions train the highest number of nurses in the country. As shown in the Table 35, these institutions have continued to generate 60 percent and over of graduates. Although FBOs training institutions were the second in the number of nurses trained, the number went down considerably from 23.9 percent in 2008 to 16.6 percent in 2009 and lowest to 2.9 in 2010. Institutions outside Kenya continued to generate the lowest number of graduates, which has remained less than 1 percent of graduates registered in the country every year.

<sup>&</sup>lt;sup>39</sup> Kiambati, Harrisson, Caroline Kiio and John Towett. World Health Organization (WHO). November 2013 Understanding the Labour Market of Human Resources for Health in Kenya.

Table 35: Nursing graduates from public and non-public institutions 2005-2010

| Year of registration | Total<br>graduates | Public institutions % | Private institutions % | Institution outside Kenya % | Mission institutions | Other institutions |
|----------------------|--------------------|-----------------------|------------------------|-----------------------------|----------------------|--------------------|
| 2005                 | 1676               | 60.0                  | 4.9                    | 0.8                         | 30.2                 | 4.1                |
| 2006                 | 2333               | 66.4                  | 4.8                    | 0.5                         | 26.0                 | 2.3                |
| 2007                 | 2515               | 65.1                  | 5.9                    | 0.2                         | 27.0                 | 1.8                |
| 2008                 | 2792               | 70.3                  | 4.2                    | 0.3                         | 23.9                 | 1.4                |
| 2009                 | 3872               | 75.8                  | 3.9                    | 0.5                         | 16.6                 | 3.1                |
| 2010                 | 2940               | 73.4                  | 4.1                    | 0.5                         | 2.9                  | 2.9                |

Source: Annual Report of Nursing Council of Kenya (2010).40

#### 3.5 Attrition of Health Workers

There were a total of 262 attritions in 2012 as compared to 1,850 in 2008, a reduction of 31 percent. Majority of attritions in 2008 were due to illness (1,399) and in 2008-2012 they were mainly due to expiry of contract (1,091). As shown in the Table 36, death has also been claiming a sizable number of health workers. The analysis of five year period (2008-2012) shows that death the cause of attrition of 780 health workers.

Table 36: Attrition in MOH (MOMS & MOPHS) staff 2008-2012

| Reasons                   | 2008 | 2009 | 2010 | 2011 | 2012 | Total |
|---------------------------|------|------|------|------|------|-------|
| Illness                   | 1399 | 37   | 2    | 2    |      | 1440  |
| Retire on public interest | 4    | 3    | 3    | 1    |      | 11    |
| Transfer of service       | 15   | 46   | 26   | 37   | 18   | 142   |
| Expiry of contract        | 203  | 222  | 276  | 308  | 82   | 1091  |
| Death                     | 165  | 195  | 170  | 172  | 78   | 780   |
| Resignation               | 2    | 2    |      | 12   | 3    | 19    |
| Reassignment              | 6    |      |      | 245  |      | 251   |
| Dismissal                 | 34   | 37   | 36   |      |      | 107   |
| Retirement                | 15   | 99   | 101  |      | 80   | 295   |
| Abscondment               | 7    | 3    | 101  | 180  | 1    | 292   |
| Other                     |      |      |      | 3    |      | 3     |
| Total                     | 1850 | 644  | 715  | 960  | 262  | 4431  |

Source: Capacity Project/MOH HRIS, August 2013.

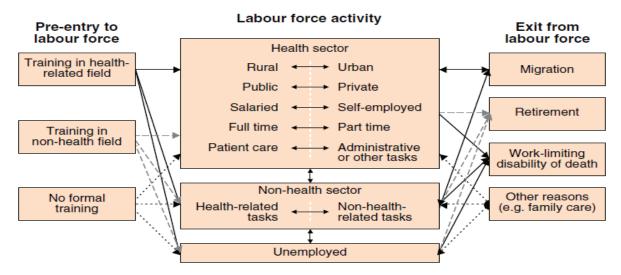
#### 3.6 Migration of Health Workers

Figure 3 illustrates the flow of health workforce – all the way from pre-entry to entry and exit into labour market. As shown in the figure, migration of health workers can take place within the health sector itself (e.g. from rural to urban and vice versa or public to private and vice versa) or exit completely from health sector into non-health sector or completely from labour force. However as shown by the double arrows, those who migrate from the health sector can always trace their way back. However those who leave the sector through retirement or disability do not find their way back.

<sup>&</sup>lt;sup>40</sup> Also see Kiambati, Harrisson, Caroline Kiio and John Towett.. World Health Organization (WHO). November 2013 Understanding the Labour Market of Human Resources for Health in Kenya.

<sup>&</sup>lt;sup>41</sup> See: Handbook on monitoring and evaluation of human resources for health (2009). WHO, World Bank and USAID.

Figure 3: Stocks and flows of the health workforce



Source: Handbook on monitoring and evaluation of human resources for health (2009). WHO, World Bank and USAID.

As Table 37 shows, there were many health professionals in the key cadre leaving public service between 2005 and 2009 for various reasons. Majority of those who left the public service were the enrolled nurses numbering 1,964 followed by medical doctors numbering 972. With devolution of health services to the counties, a lot of internal migrations (within the public service and health sector) and external migrations (out of public service and health sector and vice versa) are expected.

Table 37: Staff establishment and exit out of the public sector

| MOH staffing trends 2005–2009          |             |                    |             |
|--|-------------|--------------------|-------------|
| Designation                            | Recruitment | Exits <sup>a</sup> | Differenceb |
| Medical officers                       | 1678        | 972                | 706         |
| Clinical officers                      | 845         | 356                | 489         |
| Enrolled Nurse                         | 2406        | 1964               | 442         |
| Nursing Officer                        | 1101        | 461                | 640         |
| Medical Lab Technologist / Technicians | 381         | 185                | 196         |

<sup>&</sup>lt;sup>a</sup> The share of staff recruited between 2005 – 2009 that exited the public sector due to normal attrition, resignation and internal and external migration.

Source: Kiambati et al (2013).42

Table 38 shows that the number of nurses verified to work outside Kenya continued to decline, with the number reducing from 491 in 2008 to 336 in 2009. USA has remained the single largest destination for Kenyan nurses. England attracted 158 nurses in 2008 but the number declined to 6 in 2009. Australia attracted 36 nurses in 2008 but number increased to 40 in 2009.

<sup>&</sup>lt;sup>b</sup> Total recruited staff minus share of total recruited staff that exited the public sector.

<sup>&</sup>lt;sup>42</sup> Kiambati, Harrisson, Caroline Kiio and John Towett.. World Health Organization (WHO). November 2013 Understanding the Labour Market of Human Resources for Health in Kenya.

Table 38: Nurses external migration 2008 and 2009

| Destination country | 2008 | 2009 |
|---------------------|------|------|
| Italy               | -    | 1    |
| Ghana               | -    | 1    |
| Uganda              | 6    | 2    |
| South Africa        | 4    | 2    |
| Dubai               | -    | 3    |
| Tanzania            | 4    | 5    |
| Botswana            | 7    | 5    |
| England             | 158  | 6    |
| Ireland             | 6    | 7    |
| New Zealand         | 9    | 8    |
| Namibia             | -    | 16   |
| Canada              | 6    | 40   |
| Australia           | 36   | 40   |
| USA                 | 255  | 200  |
| Total               | 491  | 336  |

Source: Annual Report of the Nursing Council of Kenya (2009).<sup>43</sup>

<sup>&</sup>lt;sup>43</sup> Also see Kiambati, Harrisson, Caroline Kiio and John Towett.. World Health Organization (WHO). November 2013 Understanding the Labour Market of Human Resources for Health in Kenya.

# CHAPTER 4: HEALTH WORKFORCE PROJECTIONS AND GAPS

#### 4.1 Staff Projections and Gaps

Table 39 shows the projections for general practitioners, clinical officers and nurses for the period 2013-2030. Based on these projections, it will be a challenge to fill the staffing gaps for general practitioners and nurses by 2030. However, by 2025 there will be more than enough clinical officers in the market to meet the demand.

**Table 39: Projections of General Practitioners, Clinical Officers and Nurses, 2013-2030** 

| Cadre             |        | 2013   | 2015   | 2020   | 2025    | 2030    |
|-------------------|--------|--------|--------|--------|---------|---------|
| General           | Active | 3,443  | 4,148  | 6,051  | 8,117   | 10,310  |
| Practitioners     | Norm   | 7,551  | 7,939  | 9,038  | 10,275  | 11,682  |
|                   | Gap    | 4,108  | 3,801  | 2,987  | 2,159   | 1,372   |
| Clinical Officers | Active | 7,043  | 9,656  | 16,021 | 22,658  | 29,438  |
|                   | Norm   | 15,447 | 16,261 | 18,488 | 21,019  | 23,898  |
|                   | Gap    | 8,404  | 6,696  | 2,466  | -1,638  | -5,541  |
| Nurses            | Active | 34,381 | 38,911 | 54,564 | 73,666  | 97,157  |
|                   | Norm   | 75,407 | 79,379 | 90,249 | 102,607 | 116,658 |
|                   | Gap    | 41,026 | 40,468 | 35,685 | 28,941  | 19,501  |

Source: MOH, USAID and Funzo Kenya, September 24, 2013.44

According to the data received from the Oral/Dental Health Division of Ministry of Health, there are 100 dental specialists and 339 dental officers in-post in the public sector. However, the requirements are 1,340 and 7,400 dental specialists and dental officers, respectively. Projections show that only 100 will be required in 2013/14 but none in subsequent years of the planning period. The dental technologists in-post are 93 but 7,936 are required. The projections indicate that in 2013/14, 93 will be required, rising to 293 in 2017/18. The number in-post for community oral health officers is 111 while the required number is 11,920. The projections for the next five years are shown in Table 40. Going with these projections, gap in oral/dental health cadres will not be filled in the planning period.

**Table 40: Projections for Oral/Dental Health Cadres** 

| Division of Oral/D                | Division of Oral/Dental Health |          |          |         |         | Projections |         |         |  |  |  |
|-----------------------------------|--------------------------------|----------|----------|---------|---------|-------------|---------|---------|--|--|--|
| Cadre                             | Required                       | In- Post | Variance | 2013/14 | 2014/15 | 2015/16     | 2016/17 | 2017/18 |  |  |  |
| Dental Specialists                | 1,340                          | 100      | 1,240    | 50      | 150     | 250         | 350     | 500     |  |  |  |
| Dental Officers                   | 7,400                          | 339      | 7,061    | 339     | 389     | 439         | 489     | 539     |  |  |  |
| Dental<br>Technologists           | 7,936                          | 93       | 7,843    | 93      | 143     | 193         | 243     | 293     |  |  |  |
| Community Oral<br>Health Officers | 11,920                         | 111      | 11,809   | 111     | 181     | 251         | 321     | 391     |  |  |  |

Source: Ministry of Health, Oral/Dental Health Division. September, 2013.

The data from Community Health Services unit indicate that there are 2,100 community health personnel working in Community Health Units. The total number required is 46,470 leading to a shortfall of 44,370. In order to bridge this gap within the next five years, the unit would hire about 9,000 personnel per annum to cover the shortfall by the planperiod.

MOH, USAID and Funzo Kenya. Health Workforce Forecast Kenya. A Reference Report, V1.0, September 24, 2013.

As shown in Table 41, there are a total of 3,356 public health workers in the public sector. The required number in public sector is 25,933, which leaves a huge gap of 21,707 people. The projections by the Division of Environmental Health in the Ministry of Health are shown in Table 43. Based on these projections, the cadre gaps in the public health will not be filled in the planning period. As shown in the table, in the next four years the Division forecasts to hire 1050 PHTs, 1873 PHOs (Diploma) and 178 PHOs (Graduate) who will not be enough to fill the shortfall of 21,797 workers. Also shown in the table is the forecasting using 5 percent in-post.

**Table 41: Projections for cadres in public health** 

| Cadre          | Norm  | In post | Gap   | 2014 | 2015 | 2016 | 2017 | 2020 | 2025 | 2030 |
|----------------|-------|---------|-------|------|------|------|------|------|------|------|
| PHT s          | 15444 | 3356    | 13138 | 3523 | 3699 | 3883 | 2802 | 4077 | 4281 | 4495 |
| PHOs (Diploma) | 8989  | 1797    | 7192  | 1886 | 1980 | 2079 | 2182 | 2991 | 3105 | 3260 |
| PHO (Graduate) | 1500  | 178     | 1377  | 186  | 195  | 178  | 204  | 214  | 224  | 235  |
| Total          | 25933 | 5331    | 21707 | 5595 | 5874 | 6140 | 5188 | 7282 | 7610 | 7990 |

Source: Division of Environmental Health, Ministry of Health. September, 2013.

As Table 42 shows, there are no graduate laboratory technologists in the public sector. However, the staffing norm is 3,196 leaving a gap of the same which the Division of Medical Laboratory forecasts to fill by 2030. There are 2,067 medical laboratory technologists (diploma) but the requirement is 13,678 in public sector, this leaves a gap of 11,647. The division also forecasts to fill this gap by 2030. During the plan period, the gaps existing in the two cadres will not be filled.

**Table 42: Projections for Medical Laboratory cadres** 

|   | Cadre                                     | Norm  | In-post | Gap   | 2014 | 2015 | 2016 | 2017 | 2020 | 2025 | 2030 | Total |
|---|---|-------|---------|-------|------|------|------|------|------|------|------|-------|
| 1 | Graduate<br>Medical Lab.<br>Technologists | 3196  | 0       | 3196  | 188  | 188  | 188  | 188  | 564  | 564  | 564  | 3196  |
| 2 | Diploma<br>Medical Lab.<br>Technologists  | 13678 | 2067    | 11647 | 685  | 685  | 685  | 685  | 2055 | 3425 | 3425 | 13678 |
|   | Total                                     | 16874 | 2067    | 14843 | 873  | 873  | 873  | 873  | 2619 | 3989 | 3989 | 16874 |

Source: MOH, Division of Laboratory and Blood Transfusion Unit, September 2013.

The staffing norms requires public sector to have 1,187 medical engineering technologists but there are 169 in-post with a gap of 1,018. In addition there are 167 medical engineering technicians against 847 required by the staffing norms – leaving a gap of 680. The projections are as shown in the Table 43. According to these projections, the gaps in medical engineering will be filled and exceeded during the planning period.

**Table 43: Projections for Medical Engineering** 

| Cadre                               | Norm | In-post | Gap  | 2014 | 2015 | 2016 | 2017 | 2020 | 2025 | 2030 |
|-------------------------------------|------|---------|------|------|------|------|------|------|------|------|
| Medical Engineering<br>Technologist | 1187 | 169     | 1018 | 350  | 450  | 600  | 750  | 1000 | 1500 | 3000 |
| Medical Engineering<br>Technician   | 847  | 167     | 680  | 300  | 550  | 650  | 850  | 850  | 850  | 850  |

Source: MOH, Division of Medical Engineering, September 2013. .

The staffing norm of medical social work is 1,153 people, with just 100 in-post which leaves a gap of 1,053. The Division of Medical Social Work in the Ministry of Health projects to fill this gap by 2017 as shown in Table 44.

**Table 44: Projections for Medical Social work** 

| Norm  | In-post | Gap  | 2014 | 2015 | 2016 | 2017 |
|-------|---------|------|------|------|------|------|
| 1,153 | 100     | 1053 | 200  | 240  | 280  | 333  |

Source: MOH Division of Social Work, September 2013.

A summary of the current (2014) National HRH staffing needs by cadres is presented in Table 45.

**Table 45: Summary: National HRH staffing needs** 

| STAFF<br>CATEGORY        | Sub categories                    | Standard<br>workload | Category<br>Allowance<br>Factor | Individual<br>Allowance<br>Factor | Calculated<br>Staff<br>Requirement | Final staff<br>requirement |
|--------------------------|-----------------------------------|----------------------|---------------------------------|-----------------------------------|------------------------------------|----------------------------|
|                          | Community Oral Health<br>Officers | 817                  | 1.12                            | 690                               | 1,604                              | 1,604                      |
| Dental staff             | Dental assistant                  | -                    | 1.20                            | -                                 | -                                  | 1,924                      |
|                          | Dental general practitioner       | 493                  | 1.82                            | 66                                | 962                                | 962                        |
|                          | Dental specialist                 | 175                  | 2.05                            | -                                 | 359                                | 359                        |
|                          | Laboratory assistant              | -                    | 1.36                            | -                                 | -                                  | 11,137                     |
| Laboratory staff         | Laboratory technician             | 4,107                | 1.36                            | -                                 | 5,569                              | 5,569                      |
|                          | Laboratory technologist           | 1,085                | 1.36                            | -                                 | 1,471                              | 1,471                      |
|                          | Nutritionist                      | 1,322                | 1.72                            | 60                                | 2,335                              | 2,335                      |
| Medical practitioners    | Clinical Officer                  | 9,188                | 1.72                            | 471                               | 16,278                             | 16,278                     |
| praetitioners            | Medical Officer                   | 7,650                | 1.70                            | 121                               | 13,141                             | 13,141                     |
| NAC I CO                 | Enrolled Midwife                  | -                    | 2.05                            | -                                 | -                                  | 0                          |
| Midwives                 | Registered Midwife                | 5,847                | 2.19                            | 493                               | 13,308                             | 13,308                     |
|                          | Emergency / trauma specialist     | 4                    | 1.93                            | -                                 | 8                                  | 572                        |
| Non surgical specialists | Physician / internal medicine     | 601                  | 1.82                            | 452                               | 1,544                              | 1,544                      |
| specialists              | Psychiatrists                     | 5                    | 1.82                            | 452                               | 461                                | 461                        |
|                          | ENT                               | -                    | 1.82                            | 452                               | 452                                | 452                        |
|                          | General surgeon                   | 264                  | 1.82                            | 467                               | 947                                | 947                        |
|                          | Obstetrics / Gynaecology          | 73                   | 1.82                            | 452                               | 585                                | 585                        |
|                          | Ophthalmologist                   | 47                   | 1.82                            | 467                               | 552                                | 552                        |
| Surgical specialists     | Orthopedician                     | 15                   | 1.82                            | 467                               | 495                                | 495                        |
| specialists              | Pediatrician                      | 30                   | 1.82                            | 452                               | 506                                | 506                        |
|                          | Orthopedic technician             | -                    | 1.20                            | -                                 | -                                  | 831                        |
|                          | Orthopedic technologist           | 299                  | 1.20                            | 56                                | 416                                | 416                        |
|                          | Plaster technician                | -                    | 1.20                            | -                                 | -                                  | 0                          |
|                          | Nurse assistant                   | -                    | 1.27                            | -                                 | -                                  | 0                          |
|                          | Enrolled nurse                    | 17,360               | 1.27                            | 1,529                             | 23,574                             | 23,574                     |
| Nurses                   | Registered nurse                  | 2,085                | 2.05                            | 7,059                             | 11,335                             | 11,335                     |
|                          | BSN nurse                         | -                    | 9.41                            | 467                               | 467                                | 467                        |
|                          | specialised nurse                 | 1,110                | 2.54                            | 121                               | 2,939                              | 2,939                      |
|                          | Dispenser                         | -                    | 1.22                            | -                                 | -                                  | 0                          |
| Pharmacy staff           | Pharmacy technologist             | 2,543                | 1.22                            | -                                 | 3,106                              | 3,106                      |
|                          | Pharmacist                        | 3                    | 2.05                            | 719                               | 724                                | 724                        |
|                          | Radiology assistant               | -                    | 1.30                            | -                                 | -                                  | 1,505                      |
| Desired and              | X-ray technician                  | -                    | 1.30                            | -                                 | -                                  | 0                          |
| Radiology staff          | Radiographer                      | 579                  | 1.30                            | -                                 | 753                                | 753                        |
|                          | Radiologist                       | 0                    | 2.35                            | 575                               | 576                                | 576                        |

| STAFF<br>CATEGORY     | Sub categories                               | Standard<br>workload | Category<br>Allowance<br>Factor | Individual<br>Allowance<br>Factor | Calculated<br>Staff<br>Requirement | Final staff<br>requirement |
|-----------------------|--|----------------------|---------------------------------|-----------------------------------|------------------------------------|----------------------------|
| Environmental         | Public Health Officers                       | 3,359                | 1.12                            | 471                               | 4,229                              | 4,229                      |
| health staff          | Public Health Technicians                    | 2,046                | 1.30                            | 0                                 | 2,662                              | 2,662                      |
| Community staff       | Trained Community Health<br>Worker           | 87,149               | 1.22                            | 14,444                            | 120,886                            | 120,886                    |
| Stall                 | Social Health Worker                         | 1,470                | 1.58                            | 1,200                             | 3,528                              | 3,528                      |
| Rehabilitation        | Occupational Therapists                      | 537                  | 1.20                            | 58                                | 704                                | 704                        |
| specialists           | Physiotherapists                             | 994                  | 1.72                            | 58                                | 1,768                              | 1,768                      |
|                       | Health Records and<br>Information Officer    | 2,048                | 1.76                            | 471                               | 4,071                              | 4,071                      |
| Management            | Health Records and<br>Information Technician | -                    | 1.76                            | -                                 | -                                  | 0                          |
| staff                 | Medical engineering technologist             | 202                  | 1.12                            | 187                               | 413                                | 413                        |
|                       | Medical engineering technician               | -                    | 1.12                            | -                                 | -                                  | 825                        |
|                       | Drivers                                      | 125                  | 1.10                            | -                                 | 137                                | 7,252                      |
|                       | Clerks                                       | -                    | 1.03                            | -                                 | -                                  | 8,661                      |
|                       | Cleaners                                     | -                    | 1.06                            | -                                 | -                                  | 11,890                     |
| Administrative        | Security                                     | -                    | 1.06                            | 56                                | 56                                 | 9,718                      |
| staff                 | Accountants                                  | -                    | 1.03                            | -                                 | -                                  | 3,846                      |
|                       | Administrators                               | -                    | 1.06                            | -                                 | -                                  | 4,330                      |
|                       | Cooks  | -                    | 1.03                            | -                                 | -                                  | 6,503                      |
|                       | Secretaries                                  | -                    | 1.03                            | -                                 | -                                  | 3,362                      |
|                       | Casuals                                      | 2,529                | 1.03                            | -                                 | 2,593                              | 2,593                      |
| General support staff | Mortuary attendants                          | -                    | 1.06                            | -                                 | -                                  | 749                        |
| 22,501.6364.1         | Patient attendants                           | -                    | 1.06                            | -                                 | -                                  | 7,858                      |

Source: HRH &Health Infrastructure: Norms &Standards, 2013

#### **4.2 Training Projections and Gaps**

#### **4.2.1 Training Needs**

As Table 46 shows, dentist graduates are expected to grow by 57 percent while physiotherapists by 30 percent and laboratory technologists by 29 percent. During the same period, health records information officers will grow by 27 percent. The only anticipated negative growth will be from Pharmaceutical Technologists (-3 percent). According to Kenya Nutritionists &Dieticians Institute (KNDI) there were 2612registered Nutritionists (1284 degree, 1126 diplomas, and 202 certificates) in the sector by April 2014. The Institute had approved and awarded Interim licenses to 20 Training institutions (Universities, Colleges, and Training Institutes). The institutions were expected to graduate about 900 this year (2014) and growing by more than 1,000 graduates per yearn for the next 4 years.

**Table 46: Expected graduates by cadre, 2013-2018** 

|                          | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Growth |
|--------------------------|-------|-------|-------|-------|-------|-------|--------|
| Clinical officers        | 1,564 | 1,629 | 1,693 | 1,757 | 1,822 | 1,886 | 4%     |
| Dentists                 | 71    | 97    | 123   | 148   | 164   | 173   | 57%    |
| General Practitioners    | 517   | 543   | 569   | 594   | 620   | 646   | 5%     |
| HRIO                     | 812   | 985   | 1,158 | 1,216 | 1,277 | 1,341 | 27%    |
| Laboratory Technologists | 1,113 | 1,362 | 1,610 | 1,691 | 1,775 | 1,864 | 29%    |

|                      | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Growth |
|----------------------|-------|-------|-------|-------|-------|-------|--------|
| Nurses               | 3,768 | 4,207 | 4,645 | 5,084 | 5,338 | 5,605 | 13%    |
| Nutritionists*       | 2,155 | 2,612 | 3,512 | 4,512 | 5,612 | 6,812 | 316%   |
| Pharm. Technologists | 743   | 686   | 629   | 629   | 629   | 629   | -3%    |
| Pharmacists          | 105   | 109   | 114   | 123   | 123   | 128   | 5%     |
| Physiotherapists     | 110   | 135   | 161   | 186   | 195   | 205   | 30%    |

Source: MOH, USAID and Funzo Kenya, 2013.45\*KNDI

#### **4.2.2 Critical Training Requirements**

Table 47 shows the first training requirement of the Ministry of Health. The number in-post as well as that which is required by the sector is shown in the table. In order to train 22 oncologists (General) at a rate of eight that are critically needed to be trained per annum, it will take about three years. On the other hand to train 22 renal physicians at a rate of 4 that are critically needed to be trained per annum, it will require about five years. Similarly to train 22 renal physicians at rate of 4 that are needed to be trained annually, it will require about five years. As the table shows, there is critical shortage of some specialists namely: oncologists – General (0 in-posts), renal pediatricians (two in-post), renal pediatrician (one in-post) and family doctors (seven in-post).

**Table 47: The First Training Requirements** 

| Specialist            | In Post | No. required | Critical no. need to be trained per year | Years needed to train required number* |
|-----------------------|---------|--------------|--|--|
| Anesthetists          | 25      | 88           | 15                                       | 5.9                                    |
| Obst./Gynecologists   | 73      | 300          | 15                                       | 20.0                                   |
| General Surgeons      | 83      | 300          | 16                                       | 18.8                                   |
| Family Physicians     | 7       | 540          | 20                                       | 27.0                                   |
| ENT Surgeons          | 24      | 51           | 4  | 12.8                                   |
| Eye Specialists       | 20      | 62           | 4  | 15.5                                   |
| Psychiatrists         | 21      | 91           | 6  | 15.2                                   |
| Oncologists – General | 0       | 22           | 8  | 2.8                                    |
| Pathologists          | 14      | 60           | 4  | 15.0                                   |
| Radiologists          | 16      | 41           | 5  | 8.2                                    |
| Renal Physicians      | 2       | 22           | 4  | 5.5                                    |
| Renal Pediatricians   | 1       | 22           | 4  | 5.5                                    |

Source: Director of Medical Services, Ministry of Health, November 5, 2011.

Table 48 shows the second training requirement of the Ministry of Health. In order to train 113 dermatologists and 42 cardiothoracic surgeons it will require about 10 years each at a rate of four for each cadre that are critically need to be trained per annum. To train 22 critical care physicians at a rate of 5 that are critically needed to be trained per annum, it will require about four years. On the other hand, to train 22 cardiologists at a rate of four that are critically needed to be trained per annum, it will require about five years. As shown in the table, there is acute lack of cardiologists (only two in-post), critical care physicians (none in-post), dermatologists (one in-post) and Cardiothoracic Surgeons (only 3 in-post).

<sup>&</sup>lt;sup>45</sup> Ministry of Health, USAID and Funzo Kenya. Health Workforce Forecast Kenya. A Reference Report. V1.0, September 24, 2013.

**Table 48: The Second Training Requirements** 

| Specialists                 | In Post | No.<br>Required | Critical no. to be trained per year | Years needed to train required number* |
|-----------------------------|---------|-----------------|-------------------------------------|--|
| Cardiologists               | 2       | 22              | 4                                   | 5.5                                    |
| Critical Care<br>Physicians | 0       | 22              | 5                                   | 4.4                                    |
| General Physicians          | 33      | 113             | 10                                  | 11.3                                   |
| Dermatologists              | 1       | 40              | 4                                   | 10.0                                   |
| Orthopedic<br>Surgeons      | 6       | 40              | 5                                   | 8.0                                    |
| Cardiothoracic<br>Surgeons  | 3       | 42              | 4                                   | 10.5                                   |

Source: Director of Medical Services, Ministry of Health, November 5, 2011.

Table 49 shows training requirement number three of the Ministry of Health. To train 259 Clinical Officers – Ophthalmology at a rate of 50 critically needed to be trained per annum, it will require about 26 years while to train 244 Clinical Officers – ENT at a rate 10 per critically needed to be trained per annum, it will require about 24 years. While there is staff in-post for this category of cadres, the number falls short of the requirement for the Ministry of Health.

**Table 49: The Third Training Requirements** 

| Specialist                          | In Post | No. Required | Critical No. Need to Be<br>Trained Per Year | Years needed to train required number* |
|-------------------------------------|---------|--------------|---|--|
| RCO Anesthetists                    | 202     | 414          | 50  | 8.28                                   |
| Clinical Officers – ENT             | 76      | 244          | 10  | 24.4                                   |
| Clinical Officer –<br>Ophthalmology | 91      | 259          | 10  | 25.9                                   |
| Clinical Officer –<br>Pediatrics    | 146     | 293          | 20  | 14.6                                   |
| Clinical Officer – RH               | 23      | 191          | 10  | 19.1                                   |
| Clinical Officer – Lung &<br>Skin   | 166     | 336          | 20  | 16.8                                   |

Source: Director of Medical Services, Ministry of Health, November 5, 2011.

Table 50 shows the fourth training requirement number four of the Ministry of Health. In this category most of the courses take a year to complete. The estimate to be trained in 5 years planning period is shown in the table for various cadres.

**Table 50: The Fourth Training Requirements** 

| Competency            | Duration | Critical Need to be<br>Trained Per Year | Number to be trained in 5 years* |
|-----------------------|----------|---|----------------------------------|
| Pediatric Nursing     | 1 year   | 20                                      | 100                              |
| Neonatal Nursing      | 1 year   | 10                                      | 50                               |
| Theatre Nursing       | 1 year   | 30                                      | 150                              |
| Renal Nursing         | 1 year   | 20                                      | 100                              |
| Psychiatric Nursing   | 1 year   | 30                                      | 150                              |
| Anesthetic Nursing    | 1 year   | 15                                      | 75                               |
| A&E Nursing           | 1 year   | 20                                      | 100                              |
| Critical Care Nursing | 1 year   | 20                                      | 100                              |
| Upgrading (C to D)    | 21/2     | 60                                      | 120                              |

| Competency                   | Duration     | Critical Need to be<br>Trained Per Year | Number to be trained in 5 years* |
|------------------------------|--------------|---|----------------------------------|
| Upgrading (to degree)        | 4 years      | 20                                      | 20                               |
| Oncology Nursing             | 1 year       | 4                                       | 20                               |
| Short courses (skills based) | 1 to 4 weeks | 200                                     | No estimate                      |
| Total                        |              | 468                                     | -                                |

Source: Director of Medical Services, Ministry of Health, November 5, 2011.

### **CHAPTER 5: STRATEGIC DIRECTION**

The second HRH strategic Plan for the period 2013-2017 linked to the Kenya Health Sector Strategic Plan III (KHSSP III) that is currently under finalization. This plan is envisioned to articulate the HRH strategic dimensions in the light of the devolved system of health management and work towards supporting the goal of KHSSP III.

This strategic plan's vision is to, have a globally competitive, healthy and productive nation. Its goal is to, 'accelerate attainment of health impact goals' as defined in the Health Policy while the mission of this strategic plan is "To deliberately build progressive, responsive and sustainable technologically-driven, evidence-based and client-centred health system for accelerated attainment of highest standard of health to all Kenyans". This sector aims to attain its overall objectives through focusing on a broad base of health and related services that will impact on health of persons in Kenya. It places main emphasis on implementing interventions, and prioritizing investments relating to maternal and newborn health, as it is the major impact area for which progress was not attained in the previous strategic plan. It is designed to provide information on:

- a) The scope of Health and related services the sector intends to focus on as outlined in the Kenya Essential Package for Health, KEPH
- b) The investments required to provide the above-mentioned services as outlined across the 7 investment areas for health
- c) How the sector will monitor and guide attainment of the above

Guiding this strategic direction is the HRH action framework shown in Figure 4.46 This framework advocates for a comprehensive approach to national HRH planning and implementation. The framework addresses key HRH components: policy, finance, education, partnerships, leadership and HRH management systems. These components in turn informed the projected outcomes proposed by this strategic plan. The HRH strategic plan is also specifically guided by the overall mission of the health sector which is 'to promote and provide quality curative, preventive, promotive, rehabilitative and palliative health care services to all Kenyans.'

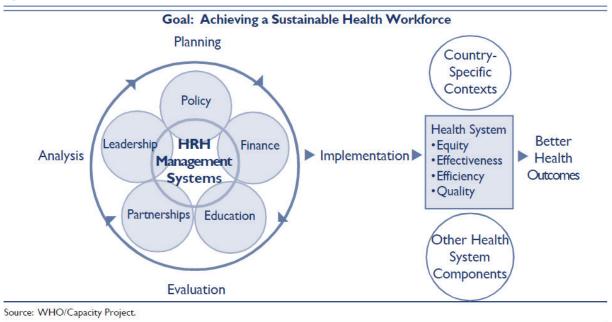
In order to contribute to the goals of this strategic plan, strategic objectives and strategies are formulated around the following six projected outcomes:

- Adequate and equitably distributed health workers
- Sector Jobs made attractive and retention of health workers
- Strengthened institutional framework and improved health workers performance.
- Strengthened human resources development systems and practices.
- Strengthened human resources planning and management at all levels,
- Adequate financial resources mobilized to support investments in HRH

It is envisaged that a detailed operational plan including annual HRH plans will be developed to support the implementation of this strategic plan.

<sup>&</sup>lt;sup>46</sup> Human Resources for Health Strategic Plan 2009-2012.

Figure 4: Human Resources for Health Action Framework



#### **5.1. PROJECTED OUTCOMES**

#### **OUTCOME 1: ADEQUATE AND EQUITABLY DISTRIBUTED HEALTH WORKFORCE**

The Human Resource distribution remains skewed overall, with some areas of the country facing significant gaps while others have optimum/surplus numbers. With establishment of Counties, the National government should prioritize the establishment of a minimum number of health workers in each facility, based on the expected services as defined in the KEPH. Adequacy encompasses numbers, skills mix, competence, and attitudes of the health workers required to deliver on the health goals. This, the sector will achieve through objectives and strategies presented below and further detailed in a Results Matrix in Chapter 6:

# Strategic Objective 1.1: Strengthen Recruitment of Adequate Numbers of Health Workforce with the Right Skills Mix

In order to address existing gaps and a need to keep up with a growing population, social economic developments, and increasing disease burden, the sector will need to recruit and deploy 60,000 new staff across all cadres during the plan period. This will be implemented as under:

- Review existing recruitment policies and procedures/guidelines and disseminate at all levels
- Review and implement the establishments and staffing norms for facility and community levels
- Recruit adequate health workers to support facility and community level health services in line with the constitution requirements
- Recruit Health HR officers to support at ounty and its high volume facilities

#### Strategic Objective 1.2: Equitable Deployment and Redeployment of the Health Workforce

The Community Strategy aims at empowering the communities to take an active part in their own health care, especially in basic preventative services. The following strategies are proposed to support the objective.

- Develop and implement a deployment policy
- Establish a robust integrated human resource information system (iHRIS) including staff returns at both national and county levels
- Redeploy staff according to needs, workload and skills as per the staffing norms and constitution requirements

- Second /Deploy health workers to support FBOs as per need
- Lobby development partners to support recruitment and deployment of additional health workers at all levels
- Initiate biannual stakeholders forum to support harmonization of terms and conditions for engagement of contracted health workers

#### **OUTCOME 2: CONDUCIVE ENVIRONMENT THAT ATTRACTS AND RETAINS HEALTH WORKFORCE**

The management of the health sector under a devolved system necessitates new institutional and management arrangements. The Counties need to create an environment where health facilities located in hardship areas do not continue to suffer staff shortages. This will require the design of attractive packages to attract and retain HWs. Extra funding may be necessary for such packages which may be sought from the Equalization Fund as provided for in Article 204 (2) of the Kenyan Constitution. The following objectives and strategies are expected to contribute to the achievement of this outcome:

#### **Strategic Objective 2.1: Make Work Conditions more Attractive**

The following strategies are proposed in support of the above objective:

- Develop an incentive policy for attraction and retention of health workers
- Strengthen and review Human Resources Management supportive supervision tools & guidelines
- Establish resource centers and recreation facilities link to Public Private partnership for HRH financing (ref. Outcome 6)
- Develop and review schemes of service for Health Workers including CHSP
- Advocate for provision of social amenities for health workers
- Design and develop secure location for personnel records at the Counties
- Train staff at Counties to handle records
- Transfer appropriate records to the Counties

#### Strategic Objective 2.2: Make Rural and Hard-to-reach Stations more Attractive

- Provide competitive and attractive retention package
- Use innovative communication approaches in hard to reach areas

#### **Strategic Objective 2.3: Make Work Place Safe**

■ Develop and implement Occupational safety and health (OSH) policies and guidelines

#### Strategic Objective 2.4: Improve Staff Wellness and Welfare

- Develop schemes for staff wellness and welfare
- Update all personnel records to feed into pension schemes and other benefit schemes
- Develop gender sensitive and responsive policy
- Lobby for provision of social amenities for health workers- (link to Public Private partnership & multi-sector engagement for HRH financing) -ref. Outcome 6.

# OUTCOME 3: RESPONSIVE INSTITUTIONAL FRAMEWORKS THAT SUPPORT WORKFORCE PERFORMANCE MANAGEMENT

To improve and sustain the workforce performance and productivity will require the creation and maintenance of an enabling working environment. Such environment supports a worker's supervision, motivation, learning and continuous professional development, and reduces chances of injury, and exposure to communicable and non-communicable diseases. It equips the worker with the right

tools and ensures the provision of water, sanitation, electricity, medical equipment, drugs, and surgical and other supplies to facilitate service delivery.

#### **Strategic Objective 3.1: Improved Health Workforce Performance Management**

The following strategies are proposed to support the objective.

- Establish Kenya Institute of Health System Management (KIHSM) to harmonize leadership, management, HRM and governance for improvement of performance
- Facilitating the implementation of a comprehensive induction training program, with specific milestones for all leaders.
- Develop Policy Guidelines on performance management for implementation of rewards and sanctions.
- Develop performance management tools and guideline for innovation, target setting, monitoring and evaluation of performance
- Provide linkage of individual performance to training, promotion and license and re-licensure
- Provide linkage of individual performance to training, promotion and license and relicensure
- Integrate the use of ICT to strengthen performance evaluation process.
- Provide a mechanism for supportive supervision for implementation of performance management cycle.

#### **OUTCOME 4: RESPONSIVE HRD SYSTEMS &PRACTICES**

The fast changing nature of the HRH environment makes it necessary to provide all health workersfrom new hires to existing ones, with the capacity to cope with changes in processes, technology and expanded responsibilities. The purposeful development of capacity involves the diagnosis of the specific needs, the establishment of a clear objectives and the delivery of programs to improve service delivery.

#### **Strategic Objective 4.1: Strengthened Human Resources Development Systems and Practices**

The following strategies are expected to achieve this strategic objective:

- Provide policies and guidelines on the human resource development of the health workforce.
- Review and adopt the national training Policy to respond to the devolved system of government and emerging health challenges.
- Develop a policy on demand driven CPD and e-learning modules that are cost effective for re-licensure.
- Develop mechanism of ensuring that In-service training is based on the training needs assessment and are institution based for cost effectiveness.
- Identify and develop cross cadre CPDs that are institutionalized
- Develop a mechanism that ensures courses are based on the identified national training needs assessment (TNA), example midwifery, oncology, anesthetist, cancer screening, etc.
- Develop a mechanism linking the ministry of health and ministry of education in the review and harmonization of curriculums to respond to emerging issues
- Develop a framework to harmonize entry criteria to health related courses.
- Develop a cost effective mechanism to harmonize the inspection of training institutions by regulatory bodies.
- Develop a harmonized internship programs for orientation of health workers trained in and outside the country.

#### Strategic Objective 4.2: Human Resource Master Plan Developed

The following strategies are expected to achieve this objective:

- Develop goals, objectives, core values and guiding principles
- Develop a forecasting policy to guide planning
- Identify the roles of stakeholders' i.e. training institutions, regulatory bodies, private, NGO, FBOs and development partners.
- Coordinate implementation of training plans
- Develop a monitoring and evaluation framework to guide implementation
- Develop strategies for raising training funds and scholarships and loans e.g. Afya Elimu.
- Develop guidelines for clinical placement
- Re-classify cadres to separate staff working in management and clinical providers
- Professionalized management staff with a scheme of service so that they can also specialize
- Develop platforms to share best practices in training and regulation.

#### **OUTCOME 5: STRENGTHENED HUMAN RESOURCE PLANNING AND MANAGEMENT IN HRH**

Planning has been identified as major weaknesses in the entire health sector. The situation has been particularly grim in the public and FBO subsectors, where HRM systems and practices have stagnated following years of under-investment and a serious shortage of skilled HR practitioners. The few professional HR staffs are deployed at the central level and in the referral hospitals. The HR function at regional and facility level is carried out by health administrators and clerical staff, many of whom have additional duties to perform.

#### Strategic Objective 5.1: A Strong and Decentralized HR Planning and Management

The following strategies are expected to achieve this strategic objective:

- Develop decentralizing structures for HRH functions including reporting lines at the National and County levels
- Develop a regular HR planning and budgeting tools in line with Government review cycle
- Develop pprofessional code of conduct for HR guidelines
- Development of guidelines for management of career progression of the health workforce
- Adoption of current existing national HRH policies and guidelines for implementation by the Counties including schemes of service and HRH norms and standards amongst others
- Review and Development of additional HRH policies and guidelines that address county HRH needs e.g. schemes of services that do not recognize cadres (to be lead by national government
- Strengthen county administrative services capacity for health workforce management through training and orientation of existing HRH policies and guidelines amongst others
- Establish HRH coordination structures at county level for linkages of partners, public, private and faith based sector for HRH planning and management
- Strengthen intergovernmental coordination on HRH issues between national and county and between counties
- Strengthen the utilization of HRH data (from human resource information system) for county leadership decision making

#### Strategic Objective 5.2: Strengthen Ethics and Values in HRH Induction and Practice

 Review existing induction manual and implement a mandatory induction program for all health workers  Management of health workers career progression alongside acquisition of ethics and appropriate tailor made managerial skills

#### **Strategic Objective 5.3: Develop HRH Communication strategy**

 Establish a HRH communication strategy within the health workforce including HRH service charter, frequently asked questions, HRH standard Operating Procedures, helpdesk amongst others

#### **OUTCOME 6: ADEQUATE FINANCIAL RESOURCES MOBILIZED TO SUPPORT INVESTMENTS IN HRH**

The 64th World Health Assembly (WHA) held in Geneva, Switzerland in May 2011, urged member states through Resolution WHA 64.6 to prioritize, in the context of global economic conditions, public sector spending on health as appropriate, to ensure that sufficient financial resources are available for the implementation of policies and strategies to scale-up and retain the health workforce particularly in developing countries. They also urged member states to recognize it as an investment in the health of the population that contributes to social and economic development to ensure sustainable financing of HRH include being cognizant of the economic performance of the country; the competing development/poverty reduction programs and projects and not just the rise in the cost of living and inflation; and remuneration obtained in other countries or private sector institutions.

#### **Strategic Objective 6.1: Increase Investment Options for HRH**

Health expenditures in sub-Saharan Africa (including in Kenya) are expected to grow rapidly with the private sector expected to make a significant contribution to investments needed to meet this demand. The private sector can effectively complement public sector efforts to help alleviate the absolute shortage of health workers; the distributional imbalance of health workers between rural and urban areas; and the training imbalance of workers, which is heavily skewed towards professional cadres. The private sector in Kenya owns 70 percent of health worker (HW) training institutions.

It was noted, however, that the private sector produces less than 30 percent of HWs, but this investment is expected to grow given the increase in growth and number of private Universities offering HW education. The following strategies are proposed to strengthen collaboration and increase HRH resources:

- Review current practices and explore investment options;
- Develop and disseminate harmonized resource mobilization strategy for HRH investment;
- Develop a framework for private sector training institutions to access public sector institutions for internships and clinical placement;
- Establish a high level multi sectoral investment stakeholders forums
- Establish HRH public private partnership (PPP) framework for National and County level with well defined instruments of engagement

#### **Strategic Objective 6.2: Reduced Costs of HRH Systems and Processes**

The following strategy is proposed to reduce costs of HRH:

Develop a HRH cost reduction strategy to minimize wastage and improve efficiency

## **CHAPTER 6: MONITORING AND EVALUATION PLAN**

The Inter-Agency Coordination Committees (ICCs) will be entrusted with monitoring and Evaluation of this strategy. An M&E Technical Working Group (TWG) consisting of 5-10 people will be appointed from the membership of ICCs to be in charge of M&E of this plan.

The TWGs will convene their meetings on quarterly basis. During their first meeting, they will define roles of partners and develop an M &E work plan for ICC approval. The TWG's main role will be to mobilize relevant authorities to collect the data and/or other required information. The data and other information received by the TWG will be collated, analyzed, and synthesized into a report(s) to be presented to the HRH ICCs' forums for discussion and approval.

At the national level, the TWG will collaborate with the directors and HR departments of the national referrals and other national institutions (e.g. training institutions, regulators and relevant government agencies) who will mobilize collection of the necessary data and/or information. At the county level the TWG will collaborate with the County Chief Officers of Health and the respective Human Resource departments who will also mobilize collection of the necessary data and/or information.

After receiving the data and information from all the sources and analyzing it, the TWGs will come up with quarterly progress reports and annual M&E reports. The quarterly and annual reports, and inputs gathered from ICC forums will all be used to improve the design, implementation and reporting of the entire M&E system. At the end of the strategy in 2018, final evaluation will be conducted and findings shared at the ICC forums. Development partners will be requested to fund the ICC meetings which will be hosted to share various reports.

#### **M&E FRAMEWORK**

This section presents the objectives, strategies, indicators and targets for achieving the five intended outcomes of this strategy. The tables also include timelines and budget for each strategic objective. The framework also shows who will be responsible for each activity objective.

OUTCOME 1: ADEQUATE AND EQUITABLY DISTRIBUTED HEALTH WORKFORCE

| Strategy   | Indicator   | Activity   | Target/Time   | Responsibility          | Annual Budget (Million Kshs) | ot (Million Ks | hs)     |         |         | Budget             |
|--|---|--|---|-------------------------|------------------------------|----------------|---------|---------|---------|--------------------|
|  |   | ,  |   |                         | 2013/14                      | 2014/15        | 2015/16 | 2016/17 | 2017/18 | (Millions<br>Kshs) |
| Strategic Objective 1.1  | : Strengthen recruit  | tment of adequate num  | Strategic Objective 1.1: Strengthen recruitment of adequate numbers of health workforce with the right skills mix     | e with the right sl     | kills mix                    |                |         |         |         |                    |
| Review existing recruitment policies and procedures/ guidelines and disseminate at all levels                                      | Number of existing recruitment policies and procedures/ guidelines reviewed and disseminated for all levels | Review policies and Guidelines     Review SOPs for recruitment of HW     Disseminate policies and Guidelines at all levels | 1 Recruitment policy<br>reviewed/developed<br>and disseminated to<br>counties<br>/ by December 2015                   | National & County Govts | 0.161                        | 0.161          |         |         |         | 0.32               |
| Review and implement establishments and staffing norms for facility and community levels   | Number of staffing norms and establishments reviewed and implemented  | Review staffing norms Review staff establishments  | - Staffing norms and establishment developed by June 2016 - Staffing norms and establishment implemented by June 2018 | National & County Govts | 1.0                          | 1.0            | 1.0     | 1.0     | 1.0     | 5.00               |
| Recruit adequate health workers to support facility and community level health services in line with the constitution requirements | Number of health workers recruited to support facility and community level health services in line          | Recruit health workers to support facility and community level health at least 12,000 per year.                            | 60,000 health workers recruited by end of December 2017   | National & County Govts | 223.073                      | 223.073        | 223.073 | 223.073 | 223.073 | 1,115.37           |
|  | with constitution<br>requirements   | ☐ Recruit 10,000<br>CHSP per year  | 40,000 CHSP<br>Recruited by June<br>2018  |                         | 42.721                       | 42.721         | 42.721  | 42.721  | 42.721  | 213.61             |
| Recruit Health HR officers to support at county and its high volume facilities   | Number of health HR officers recruited to support county and high volume health facilities                  | Recruit at least 60 HR officers per year to support county and high volume health facilities.                              | 300 health HR<br>officers Recruited by<br>December 2017   | National & County Govts | 5.76                         | 5.76           | 5.76    | 5.76    | 5.76    | 28.80              |

|  | 1.61  | 3.50  | 2.68  | 2.00  | 145.00   | 0  | 1.61   | 3.50  |
|--|---|---|---|---|--|--|--|---|
|  |   |   | 0.336   |   | 29.0   | 0  |  |   |
|  |   |   | 0.336   |   | 29.0   | 0  |  |   |
|  |   |   | 0.336   |   | 29.0   | 0  | 0.50   | 0.50  |
|  | 0.606   | 1.5   | 0.336   | 1.0   | 29.0   | 0  | 0.50   | 1.50  |
|  | 1.0   | 2.0   | 1.336   | 1.0   | 29.0   | 0  | 0.606,   | 1.50  |
|  | National &<br>County Govts  | National &<br>County Govts                        | National & County Govts   | National & County Govts   | National &<br>County Govts                         | National & County Govts  | National &<br>County Govts   | National & County Govts   |
| of the health workforce  | Deployment<br>policy developed<br>by June 2015and<br>implemented by June<br>2016  |   | Integrated HRIS established at national and county levels by December 2014  |   | Personnel records<br>automated by<br>December 2017 | Staff redeployed<br>according to staffing<br>norms by December<br>2017   | Guidelines on sharing of specialists among counties developed by December 2015 | Guidelines on<br>sharing of specialists<br>among counties<br>disseminated by<br>December 2016 |
| Strategic Objectives 1.2:Equitable deployment and redeployment of the health workforce | <ul> <li>□ Develop<br/>deployment<br/>policy for the<br/>health sector</li> </ul> | ☐ Disseminate deployment policy for health sector | Establish and implement a integrated human resource information system including staff returns at both national and county levels | Establish HR data linkage with DHIS and regulatory bodies for iHRIS and staff returns | ☐ Automated personnel records                      | Redeploy staff according to needs and skills as per the staffing norms and constitution requirements                           | ☐ Develop guidelines on sharing of specialists among counties                  | ☐ Disseminate guidelines on sharing of specialists among counties                             |
| 2:Equitable deploym  | Deployment policy developed and implemented                                       |   | An integrated human resource information system established including staff returns at both national and county levels            |   |  | Number of staff redeployed according to needs and skills as per the staffing norms and constitution requirements               | Develop<br>guidelines<br>sharing of<br>specialists<br>among counties           |   |
| Strategic Objectives 1.  | Develop and<br>implement a<br>deployment policy                                   |   | Establish an integrated human resource information system (IHRIS) including staff returns at both national and county levels      |   |  | Redeploy staff<br>according to needs,<br>workload, and skills as<br>per the staffing norms<br>and constitution<br>requirements |  |   |

| 1.25  | 1.25  |  | 424.00  | 7.00  |
|---|---|--|---|---|
| 0.25  | 0.25  |  | 84.800  | 1.40  |
| 0.25  | 0.25  |  | 84.800  | 1.40  |
| 0.25  | 0.25  | 0  | 84.800  | 1.40  |
| 0.25  | 0.25  | 0  | 84.800  | 1.40  |
| 0.25  | 0.25  | 0  | 84.800  | 1.40  |
| National & County Govts   | National & County Govts   | National &<br>County Govts   | National & County Govts   | National and<br>County Govts  |
| Inventory of partners supporting additional health workers developed by December 2014                           | Number of staff<br>supported through<br>partnership with<br>dev partners by<br>December 2017            | Develop and put<br>in place MOU's on<br>partnerships with<br>FBO's for supply of<br>health workforce by<br>December 2014 | proportion of health<br>workers absorbed<br>after expiry of<br>their contracts by<br>December 2017        | 10 stakeholders<br>forums held by June<br>2018  |
| Conduct<br>advocacy<br>meetings<br>Develop MOU's<br>on support-   | Recruit and deploy additional health workers through partners   | Develop MOU's<br>on partnerships<br>with FBO's for<br>supply of health<br>workforce                                      | Develop<br>strategies<br>to absorb<br>contracted<br>health- workers<br>after expiry of<br>Partner support | Hold<br>stakeholders<br>forums twice a<br>year  |
|   |   |  |   |   |
| Number of development partners supporting recruitment and deployment of additional health workers at all levels | Number of additional health workers recruited and deployed through lobbying from developmental partners | MOU's on<br>partnerships<br>with FBO's put<br>in place for<br>supply of health<br>workforce                              | Number of<br>contracted<br>health workers<br>absorbed by<br>GOK after expiry<br>of their contracts        | Number of<br>stakeholders<br>forums   |
| Lobby development partners to support recruitment and deployment of additional health workers at all levels     |   |  |   | Initiate a stakeholders forums to support harmonization of terms & conditions for engagement of contracted health workers |

OUTCOME TWO: CONDUCIVE ENVIRONMENT THAT ATTRACTS AND RETAINS HEALTH WORKFORCE

| Indicator  | ACTIVITY   | Target/TIME   | RESPONSIBLE             | Annual Budget (Million Kshs) | t (Million K | shs)    |         |         | Budget<br>(Kshs |
|--|--|---|-------------------------|------------------------------|--------------|---------|---------|---------|-----------------|
|  |  |   |                         | 2013/14                      | 2014/15      | 2015/16 | 2016/17 | 2017/18 | Million)        |
| ork cond   | Strategic Objectives 2.1: Make work conditions more attractive   |   |                         |                              |              |         |         |         |                 |
| An incentive policy for attraction and retention of health workers developed and implemented | □ Develop and implement an incentive policy for attraction and retention of health workers □ Disseminate incentive policy for attraction and retention of health workers | Incentive policy<br>for attraction and<br>retention of health<br>workers established<br>by December 2015                                    | National & County Govts | 2.0                          | 2.0          | 2.0     |         |         | 6.00            |
| HRM supportive supervision tool and guidelines reviewed and strengthened                     | Review guidelines<br>for Human resources<br>management<br>Review supportive<br>supervision tool s<br>for Human resources<br>management                                   | HRM Supportive supervision tools and guidelines reviewed and implemented by December 2015   | National & County Govts | 2.0                          | 2.0          | 2.0     |         |         | 6.00            |
| Number of<br>Learning resource<br>centers and<br>recreation facilities<br>established        | Establish learning resource centers and recreation facilities  | resource centers and<br>recreation facilities<br>established by<br>December 2017  | National & County Govts | 44.66                        | 44.66        | 44.66   | 44.66   | 44.66   | 223.30          |
| Number of existing schemes of service reviewed Number of new schemes of service              | Review existing schemes of service for Health workers including CHSP  Develop new schemes of service for Health workers  | Number of existing schemes of service including CHSP reviewed by December 2017 Schemes of service developed for all cadres by December 2017 | National Govt           | 3.0                          | 9.<br>9.     | 3.0     | 3.0     | 3.0     | 15.0            |

| Improve personnel records and filing systems at all levels              | Proportion of personal files that comply with the minimum required standard documents as per checklist |        | Review and updating personal files against standardized checklist before transferring to the county.             | All staff personal<br>files reviewed<br>and updated by<br>December 2014                                   | National Govt              | 0    | 0    | 0    |      |      | 0     |
|---|--|--------|--|---|----------------------------|------|------|------|------|------|-------|
|   | Number of<br>hospitals with<br>personnel filing<br>system  |        |  | Personnel filing system established in all hospitals by December 2017                                     | National Govt              | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 5.0   |
| Strategic Objectives 2.2: Make rural and hard to reach stations more    | 2: Make rural and ha   | ard to | s reach stations more  | e attractive  |                            |      |      |      |      |      |       |
| Provide competitive<br>and attractive<br>retention package              | Competitive<br>and attractive<br>retention<br>packages<br>developed and<br>disseminated                |        | Develop competitive attraction and retention packages Disseminate the developed packages Implement the developed | competitive<br>attraction and<br>retention package<br>developed by<br>December 2015                       | National & County Govts    | 2.50 | 2.00 | 2.00 |      |      | 6.50  |
| Use innovative<br>communication<br>approaches in hard to<br>reach areas | Number of innovative communication approaches used in hard to reach areas                              |        | Establish innovative communication approaches in hard to reach areas   | communication<br>approaches in<br>hard to reach<br>areas through use<br>of innovation by<br>December 2017 | National &<br>County Govts | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 23.15 |

|  | 1.0   | 5.00   | 0   |  | 4.60  | 4.60   | 4.00  | 2.0   | 2.0  | 2.0  |
|--|---|--|---|--|---|--|---|---|--|--|
|  |   |  |   |  |   |  | 0.50  |   |  |  |
|  |   |  |   |  |   |  | 0.50  |   |  |  |
|  |   |  |   |  |   |  | 1.0   |   |  |  |
|  | 0.50  | 2.50   | 0   |  | 2.0   | 2.0  | 1.0   | 1.0   | 1.0  | 1.0  |
|  | 0.50  | 2.5  | 0   |  | 2.6   | 2.6  | 1.0   | 1.0   | 1.0  | 1.0  |
|  | National & County Govts   | National & County Govts  | National &<br>County Govts  |  | National & County Govts   | National & County Govts  | National & County Govts   | National &<br>County Govts  | National &<br>County Govts                   | National &<br>County Govts   |
|  | Occupational Safety and Health (OSH) policies and guidelines developed by December 2014 | Occupational Safety<br>and Health (OSH)<br>policies and guidelines<br>disseminated by June<br>2015 | Occupational Safety<br>and Health (OSH)<br>policies and guidelines<br>implemented by<br>December 2016 |  | schemes for staff wellness and welfare developed and disseminated by December 2015                | Gender sensitive<br>policy developed<br>and disseminated by<br>December 2015 | All counties<br>providing social<br>amenities by<br>December 2018 | All counties have<br>secure locations by<br>March 2015                            | All county trained by<br>December 2014       | All counties have their records by June 2014                       |
|  | Develop<br>Occupational<br>Safety and Health<br>(OSH) policies and<br>guidelines        | Disseminate Occupational Safety and Health (OSH) policies and guidelines                           | Implement Occupational Safety and Health (OSH) policies and guidelines                                | s and welfare  | Develop schemes for staff wellness and welfare Disseminate schemes for staff wellness and welfare | Develop Gender<br>sensitive policy<br>Disseminate policy                     | Provide social<br>amenities for<br>health workforce               | Provide physical infrastructure   | Train staff in<br>managing records           | Transfer records securely to counties                              |
| ce safe  |   |  |   | wellnes  |   |  |   |   |  |  |
| 3: Make work pla                               | Occupational<br>Safety and<br>Health (OSH)<br>policies and<br>guidelines                | developed and<br>implemented   |   | 4: Improve Staff v   | Number of<br>schemes for<br>staff wellness<br>and welfare<br>developed                            | A gender<br>sensitive and<br>responsive policy<br>developed                  | Number of Counties providing social amenities for health workers  | Number of Counties with secure locations for personnel records                    | Number of staff<br>trained                   | Number of<br>Counties with all<br>their records                    |
| Strategic Objectives 2.3: Make work place safe | Develop and implement occupational safety and health (OSH) policies and                 | guidelines   |   | Strategic Objectives 2.4: Improve Staff wellness and welfare | Develop schemes for staff wellness and welfare  | Develop gender<br>sensitive and<br>responsive policy                         | Advocate for provision of social amenities for health workers     | Design and develop<br>secure location for<br>personnel records at<br>the Counties | Train staff at Counties<br>to handle records | Transfer appropriate records to the in a secure manner to counties |

|  |                              | 2017/18 Total<br>Budget<br>Million<br>Kshs) |   | 3.00   | 0.00  | 5.50  |
|--|------------------------------|---|---|--|---|---|
|  |                              | 2016/17 2                                   |   |  |   |   |
|  | on Kshs)                     | 2015/16                                     |   | 1.00   | 2.00  | 1.50  |
|  | Annual Budget (Million Kshs) | 2014/15                                     |   | 1.00   | 2.00  | 2.00  |
| EMENT  | Annual B                     | 2013/14                                     |   | 1.00   | 2.00  | 2.00  |
| ICE MANAGE   | Responsibility               |   |   | National<br>Govt   | National<br>Govt  | National<br>Govt  |
| RKFORCE PERFORMAN  | Target/Time                  |   | nt  | Program document<br>developed by June<br>2014<br>Institute of<br>Health Systems<br>Management<br>Established by June<br>2015   | Policy guidelines<br>developed by<br>June 2015  | Tools and guidelines<br>developed by June<br>2016   |
| OUTCOME 3: RESPONSIVE INSTITUTIONAL FRAMEWORKS THAT SUPPORT WORKFORCE PERFORMANCE MANAGEMENT | Activity                     |   | Strategic Objective 3.1: Improved Health Workforce Performance Management | Desk Review of the documents Share findings with relevant stakeholders. incorporate feedback and finalize Approval and gazette Appoint multi stakeholders advisory committee. Dissemination for implementation Launch of KIHSM | Desk review of existing policies.  Draft policy document Workshop with stakeholders Integration of feedback into the document. Validation workshop of the policy Approval & Dissemination | Desk review of existing document Development of draft tools and guidelines Share the tools with stakeholders Incorporate feedback Disseminate and implement |
| ONSIVE INSTITUTIONA  | Indicator                    |   | 3.1: Improved Health  | A harmonized programs on leadership, governance and management Establish the Institute   | Policy guidelines   | Tools and guidelines  |
| OUTCOME 3: RESPC   | Strategy                     |   | Strategic Objective   | Establish Kenya<br>Institute of<br>Health System<br>Management<br>(KIHSM) to<br>harmonize<br>leadership,<br>management,<br>HRM and<br>governance for<br>improvement of<br>performance  | Develop Policy<br>Guidelines on<br>performance<br>management for<br>implementation<br>of rewards and<br>sanctions.  | Develop performance management tools and guideline for target setting, monitoring and evaluation of performance   |

| 15.00  | 4.50   | 5.50   |   | Total                | (Kshs)   | 7.00  |
|--|--|--|---|----------------------|--|---|
|  |  |  |   | 01/110               | 2011/18  |   |
|  |  |  |   | 7177100              | 7079/17  |   |
| 5.00   | 1.50   | 1.50   |   | 2015/16              | 2015/16  | 3.00  |
| 5.00   | 1.50   | 2.00   |   | lget (Kshs)          | 2014/15  | 4.00  |
| 5.00   | 1.50   | 2.00   | ACTICES   | Annual Budget (Kshs) | 2013/14  |   |
| National & County Govts  | National<br>& County<br>Govts  | National<br>& County<br>Govts  | MS AND PR                                       | Responsibility       |  | National<br>& County<br>Govts   |
| Data based linked by<br>December, 2015   | On line submission<br>process established<br>by December 2016.   | Performance<br>Management<br>Mechanism<br>established by Dec,<br>2016  | OUTCOME 4: RESPONSIVE HRD SYSTEMS AND PRACTICES | Target/Time Re       | Systems and Practices  | Policies developed<br>and disseminated for<br>implementation by<br>Dec, 2015                      |
| Hold a stakeholders forum to discuss linkages, performance, promotion and license and relicensure.  Training of staff managing data Customize the existing tools to capture relevant data from public, private and FBO training institutions and link to regulatory bodies and HRD(MOH)  Trial runs and feedback | Take stock of existing ICT systems. Share the findings and gaps with relevant stakeholders Identify and procure the relevant ICT system. Train relevant staff and users Implementation | Review the existing mechanisms Develop a guiding document Share the document Incorporate feedback Validate, Finalize and disseminate the document for implementation | OUTCOME 4: RE                                   | Activity             | Strategic Objective 4.1.Strengthened Human Resources Development Systems a | <ul><li>2 workshops to review, validate and finalize</li><li>Approval and dissemination</li></ul> |
|  |  | 00000  |   |                      | nmaı   |   |
| Data base at HRD showing linkages to licensure and re-licensure with regulating bodies and training institution  | On line<br>completion and<br>submission of<br>appraisal form   | Established<br>mechanism for<br>performance<br>management<br>cycle   |   | Indicator            | L:Strengthened H   | HRD Policies<br>& Guidelines<br>developed   |
| Provide linkage  of individual sh performance to training, promotion and license and re- in  | Integrate the couse of ICT to strengthen superformance evaluation process including induction.   | Provide a mechanism mochanism for supportive passupervision for implementation cy of performance management cycle.   |   | Strategy             | Strategic Objective 4.1  | Provide policies and guidelines on the human resource development of the health workforce.        |

| 5.50   | 5.50   | 6.00  | 12.00  | 3.21  |
|--|--|---|--|---|
|  |  |   |  |   |
|  |  |   |  |   |
| 1.50   |  |   | 4.00   |   |
| 2.00   | 2.50   | 3.00  | 4.00   | 1.50  |
| 2.00   | 3.00   | 3.00  | 4.00   | 171   |
| National<br>Govts  | National<br>& county<br>Govts  | National<br>and county<br>Govts   | National<br>& County<br>Govts  | National<br>& County<br>Govts   |
| Training policy developed and implemented by Dec. 2015   | CPD policy on<br>e-learning modules<br>developed and<br>disseminated for re-<br>licensure<br>by Dec2015  | A framework based on national training needs developed and disseminated   | Cross cadre CPDs institutionalized by Dec. 2014  | Institutionalized TNA based in-service training by Dec. 2014  |
| Desk review of existing training policy. Draft training policy document Workshop with stakeholders on the policy document. Integration of feedback into the document. Validation workshop of the policy Approval for use | Desk review of existing policy. Draft policy document Workshop with stakeholders on the policy document. Integration of feedback into the document. Validation workshop of the policy Approval for use Dissemination | Desk review of existing mechanisms. Develop a guiding document Share document. Incorporate of feedback into the document. Validate and, disseminate | Desk review of existing guidelines. Draft policy document Share document. Incorporate of feedback into the document. Validate and, disseminate | Conduct a Training Needs Assessment Review existing curricula in reference to country training needs. Develop a framework to ensure courses are based on NTNA: 2 workshop to develop and validate the framework document Approval Dissemination |
|  |  |   |  |   |
| Kenya Training<br>policy developed   | CPD policy<br>and e-learning<br>modules<br>developed for<br>re-licensure   | A framework<br>based on<br>national training<br>needs<br>developed  | Institutionalized cross cadre CPDs   | Established and institutionalized TNA based inservice training  |
| Review and adopt the national training Policy to respond to the devolved system of government and emerging health challenges.  | Develop a policy on<br>demand driven CPD<br>and e-learning modules<br>that are cost effective<br>for re-licensure.   | Develop mechanism of ensuring that In-service training is based on the training needs assessment and are institution based for cost effectiveness   | Identify and develop<br>cross cadre CPDs that<br>are institutionalized   | Develop a mechanism that ensures courses are based on the identified national training needs assessment (TNA ), example midwifery, oncology, anesthetist, cancer screening, etc.  |

| 10.00   | 600   | 5.50  | 0.32   |
|---|---|---|--|
|   |   |   |  |
|   | 1.00  | 1.00  |  |
| 2.00  | 1.00  | 1.50  |  |
| 4.00  | 2.00  | 1.50  | 0.16   |
| 4.00  | 2.00  | 1.50  | 0.16   |
| National<br>& County<br>Govts   | National<br>& County<br>Govts   | National<br>& County<br>Govts   | National<br>and County<br>Govts  |
| A frame work<br>developed and<br>implemented by<br>Dec. 2015  | Harmonized<br>internship<br>orientation program<br>established by June,<br>2016                                       | Harmonized<br>inspections<br>mechanism<br>established by<br>Dec. 2016   | Induction Manual<br>reviewed ,<br>disseminated and<br>implemented by<br>December 2015  |
| Stakeholders meeting to discuss formation of the forum Formation of a coordinating committee on curriculum Regularize annual meetings to review emerging issues | Stakeholders meeting to discuss entry criteria Workshop to develop a harmonized entry criteria-Approval Dissemination | Stakeholders meeting to discuss inspection of training institutions  Workshop to develop harmonized inspection guidelines  Approval and Dissemination | Review the existing internship program documents Develop a guiding document Share the document Incorporate feedback Validate, Finalize and disseminate the document for implementation |
| A platform to review and harmonize curricula in place   | Entry criteria<br>framework<br>for health<br>related courses<br>developed   | A harmonized<br>Inspection<br>Plan of training<br>institutions  | Induction<br>Manual<br>developed and,<br>disseminated  |
| A platform<br>review and<br>harmonize<br>curricula in   | Entry criteria<br>framework<br>for health<br>related cours<br>developed   | A harmoniz<br>Inspection<br>Plan of trai<br>institutions  | Induction<br>Manual<br>developed<br>dissemina  |
| Develop a mechanism linking the ministry of health and ministry of education in the review and harmonization of curriculums to respond to emerging issues       | Develop a framework to harmonize entry criteria to health related courses.  | Develop a cost effective mechanism to harmonize the inspection of training institutions by regulatory bodies.   | Develop a harmonized internship programs for orientation of health workers trained in and outside the country.   |

|  | 6.50  | 8.50   | 5.00   | 3.00   | 2.00   | 2.00  | 1.00   | 1.00   | 2.00   | 3.00  |
|--|---|--|--|--|--|---|--|--|--|---|
|  |   |  |  |  |  |   |  |  |  |   |
|  |   | 1.00   |  | 05.0   |  |   |  |  | 0.50   |   |
|  | 2.00  | 2.50   |  | 0.50   |  | 0.50  |  |  | 0.50   |   |
|  | 2.00  | 2.50   | 2.50   | 1.00   | 1.00   | 0.50  | 0.50   | 0.50   | 0.50   | 1.00  |
|  | 2.50  | 2.50   | 2.50   | 1.00   | 1.00   | 1.00  | 0.50   | 0.50   | 0.50   | 2.00  |
|  | National and<br>County Govts  | National and<br>County Govt  | National<br>Government   | National and<br>County Govts   | National and<br>County Govts   | National<br>government  | National Govts   |  | National Govt  | National Govt   |
|  | Human Resource<br>Master plan<br>developed and<br>implemented by<br>December 2015           |  |  |  |  |   |  |  |  |   |
| Developed to guide Training.   | Stakeholders workshop to develop strategic objectives for the HRD master plan Dissemination | ☐ Desk review of existing policies and guidelines on forecasting. ☐ Dissemination. | Stakeholders workshop to identify roles of different stakeholders and integrate in the master plan Dissemination                   | ☐ Constitute a coordinating committee ☐ Hold quarterly coordinating meetings | Stakeholders' workshop to develop an M & E framework and integrate in the master plan. | Stakeholders workshop to develop strategies for fund raising and integrate in the master plan | ☐ Desk review of existing policies and guidelines on forecasting. ☐ Dissemination. | ☐ Desk review of existing cadres. ☐ Dissemination.                                 | <ul> <li>□ Desk review of existing schemes</li> <li>□ Dissemination.</li> </ul>              | Stakeholders meeting to discuss formation of the platform Formation of a coordinating committee on training and regulation Regularize annual meetings to review emerging issues |
| Resource Master Plan I   | Goals, objectives,<br>core values and<br>guiding principles                                 | Forecasting policy   | Roles of stakeholders  | Established coordination and Implementation schedule                         | M &E framework   | Plan for raising<br>training funds  | Clinical placement<br>guidelines   | Re-classification of cadres  | Scheme of service<br>for management<br>staff in place  | A platform for sharing best practices   |
| Strategic Objective 4.2: Human Resource Master Plan Developed to guide Training. | Develop goals, objectives, core<br>values and guiding principles                            | Develop a forecasting policy to<br>guide planning                                  | Identify the roles of stakeholders' i.e. training institutions, regulatory bodies, private, NGO and FBOs and development partners. | Coordination of implementation of training plans                             | Develop a monitoring and evaluation framework to guide implementation.                 | Develop strategies for raising training funds and scholarships and loans e.g. Afya Elimu.     | Develop guidelines for clinical<br>placement                                       | Re-classify cadres to separate staff working in management and clinical providers. | Professionalized management staff with a scheme of service so that they can also specialize. | Develop platforms to share best practices in training and regulation.   |

OUTCOME 5: STRENGTHENED HUMAN RESOURCE PLANNING AND MANAGEMENT IN HRH

| Strategies   | Indicators   | Strategies Indicators Activity  | Target/Time   | Responsibility            | Annual Budget (Kshs) | daet (Kshs) |         |         | _         | Total  |
|--|--|---|---|---------------------------|----------------------|-------------|---------|---------|-----------|--------|
| 1  |  | •   | ,<br>3  |                           | 2013/14              | 2014/15     | 2015/16 | 2016/17 | 2017/18 E | Budget |
| Strategic Objective 5.1 A stro   | <br>ong and decentralized H  | Strategic Objective 5.1 A strong and decentralized HR planning and management   |   |                           |                      |             |         | _       |           | GIEN   |
| Develop decentralized structures for HRH functions including reporting lines at the National and County levels   | A report on structures and reporting line.                         | Review the existing structures     Conduct stakeholders     workshop     Disseminate  | Decentralized<br>structure for<br>HRH function<br>established by<br>December 2014         | National&<br>County Govts | 3.50                 | 2.00        |         |         |           | 5.50   |
| Develop a regular HR<br>planning and budgeting<br>tools in line with Government<br>review cycle  | HRH planning and budgeting tools                                   | Conduct workshop to review the existing tools     Disseminate the tools to all stakeholders   | HR planning and budgeting tools institutionalized by June 2017                            | National&<br>County Govts | 0.50                 | 0.50        | 0.50    | 0.50    |           | 2.00   |
| Develop professional code of conduct for HR  | Ethics and integrity<br>module                                     | Review the current ethics and integrity modules and practices     Scale up and implement as part of induction for HRH workforce   | Professional code of conduct for HR developed and in use by Dec. 2015                     | National&<br>County Govts | 3.50                 | 2.50        |         |         | 0         | 0.00   |
| Development of guidelines for management of career progression of the health workforce   | Guidelines for<br>management of<br>career progression<br>developed | Draft guidelines for Management of career progression of Health workforce Integration of feedback into the document. Validation workshop of the guidelines Approval for use Dissemination | Guidelines for<br>management<br>of career<br>progression<br>developed by<br>December 2015 | National                  | 0                    | 0           | 0       |         | 0         |        |
| Adoption of current existing national HRH policies and guidelines for implementation by the counties including schemes of service and HRH norms and standards amongst others | HRH policies and<br>guidelines adopted by<br>47 counties           | ☐ Disseminate and implement at county level   | HRH policies<br>and guidelines<br>adopted by<br>47 counties by<br>December 2015           | County Govt               | 0.16                 | 0.16        |         |         |           | 0.32   |

| 0.32  | 2.00   | 0.4  |   |  | 5.50   |
|---|--|--|---|--|--|
|   |  | 0.80   |   |  |  |
|   |  | 0.80   |   |  |  |
|   | 0.50   | 0.80   |   |  | 1.50   |
| 0.16  | 0.50   | 0.80   |   |  | 2:00   |
| 0.16  | 1.00   | 0.80   |   |  | 2.00   |
| National and<br>County Govts  | National and<br>County Govt  | County Govt  | County Govt   |  | National&<br>County Govts  |
| Updated HRH policies and guidelines disseminated and implemented by December 2015   | County Health<br>Management<br>trained by<br>December 2014   | Established<br>functional<br>HRH ICC at the<br>counties by<br>April 2015   | All counties<br>accessing<br>and utilizing<br>HRH data for<br>decision making<br>by December<br>2015.                 |  | Communication strategy developed and implemented By June 2016  |
| Review and develop additional     HRH policies and guidelines.     □ Disseminate policies and guidelines to the Counties.   | ☐ Train and orientate county health workforce management   | Sensitization the county management on inter governmental coordination, Facilitate formation of HRH Interagency Coordination Committee, Develop terms of reference and Technical Work Groups and implement at county level | <ul> <li>□ Sensitize and train the county<br/>leadership on HRH data,<br/>demand and use</li> </ul>                   | n strategy   | ☐ Develop community strategy ☐ Disseminate   |
| Updated HRH policies<br>and guidelines to<br>address County HRH<br>needs  | Strengthened county<br>administrative<br>services capacity   | HRH coordination<br>structures established<br>at the county  | HRH data from<br>HRIS utilize by<br>county leadership for<br>decision making  | lop HRH Communicatio   | HRH communication<br>strategy  |
| Review and Development of additional HRH policies and guidelines that address county HRH needs e.g. schemes of services that do not recognize cadres (to be lead by national government | Strengthen county administrative services capacity for health workforce management through training and orientation of existing HRH policies and guidelines amongst others | Establish HRH coordination structures at county level for linkages of partners, public, private and faith based sector for HRH planning and management   | Strengthen the utilization of HRH data (from human resource information system) for county leadership decision making | Strategic Objective 5.2 : Develop HRH Communication strategy | Establish a HRH communication strategy within the health workforce including HRH service charter, frequently asked questions, HRH standard Operating Procedures, helpdesk amongst others |

OUTCOME 6: ADEQUATE FINANCIAL RESOURCES MOBILIZED TO SUPPORT INVESTMENTS IN HRH

| Strategies   | Indicators   | Activity   | Target  | Responsible   | Annual Buc | Annual Budget (Million Kshs) | ı Kshs) |         |           | Total            |
|--|--|--|---|---|------------|------------------------------|---------|---------|-----------|------------------|
|  |  |  |   |   | 2013/14    | 2014/15                      | 2015/16 | 2016/17 | 17 2017/1 | Budget<br>(Kshs) |
| Strategic Objective 6.1.Increasee investment options for HRH   | Increasee investment   | t options for HRH  |   |   |            |                              |         |         |           |                  |
| Review current<br>practices and explore<br>investment options  | Reviewed investment options report                                 | Develop terms of reference     Hire a consultant     Get a report from the consultant     Share the report with the stakeholders     Disseminate                         | investment<br>options in place<br>by June 2015                | National&<br>County Govts                                       | 3.50       | ri<br>ri                     | 3.50    | 1.50    |           | 8.50             |
| Develop and disseminate harmonized resource mobilization strategy for HRH production   | HRH Resource<br>mobilization plan<br>developed and<br>disseminated | Develop a county specific resource mobilization strategies     Develop a sensitization program for the counties     Disseminate the strategies                           | HRH Resource<br>mobilization<br>plan in place by<br>Dec. 2016 | National&<br>County Govts                                       | 1.50       | T.                           | 1.50    | 1.50    | 1.0       | 5.50             |
| Develop a framework for private sector training institutions to access public sector institutions for internships and clinical placement | A functional<br>framework in<br>place.                             | Conduct baseline on private training institutions access to public institutions  Develop the framework to improve access to public facilities  Disseminate the framework | A functional<br>framework in<br>place by Dec.<br>2014         | National&<br>County Govts ,<br>Private Training<br>Institutions | 4.00       | Ţ                            | 1.00    | 1.00    | 1.00      | 2.00             |
| Establish a high<br>level multi -<br>sectoral investment<br>stakeholders forums  | Two forums held<br>per year  | Establish TORs for the stakeholders     Schedule quarterly meetings     Hold 8 forums     Follow up  | 8 forums held<br>by Dec. 2017                                 | National&<br>County Govts                                       | 1.00       | 1.(                          | 1.00    | 1.00    | 1.00 1.00 | 2.00             |
| Establish HRH public private partnership (PPP) framework for National and County level with well defined instruments of engagement       | HRH PPP<br>framework<br>established                                | ☐ Develop HRH PPP framework for the national and county levels ☐ Disseminate the framework   | HRH PPP<br>framework<br>established by<br>Dec. 2016           | National&<br>County Govts                                       | 2.00       | 2.00                         | 2.00    | 1.00    |           | 7.00             |
| Strategic Objective 6.2  | :Reduced costs of Hi   | Strategic Objective 6.2:Reduced costs of HRH systems and processes   |   |   |            |                              |         |         |           |                  |
| Develop a HRH cost reduction strategy to minimize wastage and to improve efficiency  | HRH cost<br>reduction strategy<br>developed                        | Identify HR cost centre's Device cost reduction / efficiency improvement strategy Disseminate  | HRH cost<br>reduction<br>strategy in<br>place by Dec.<br>2016 | National&<br>County Govts                                       | 2.50       |                              | 2.50 2  | 2.50 2. | 2.50      | 10.00            |
| Total  |  |  |   |   |            |                              |         |         |           | 2,473.72         |

## **CHAPTER 7: IMPLEMENTATION PLAN**

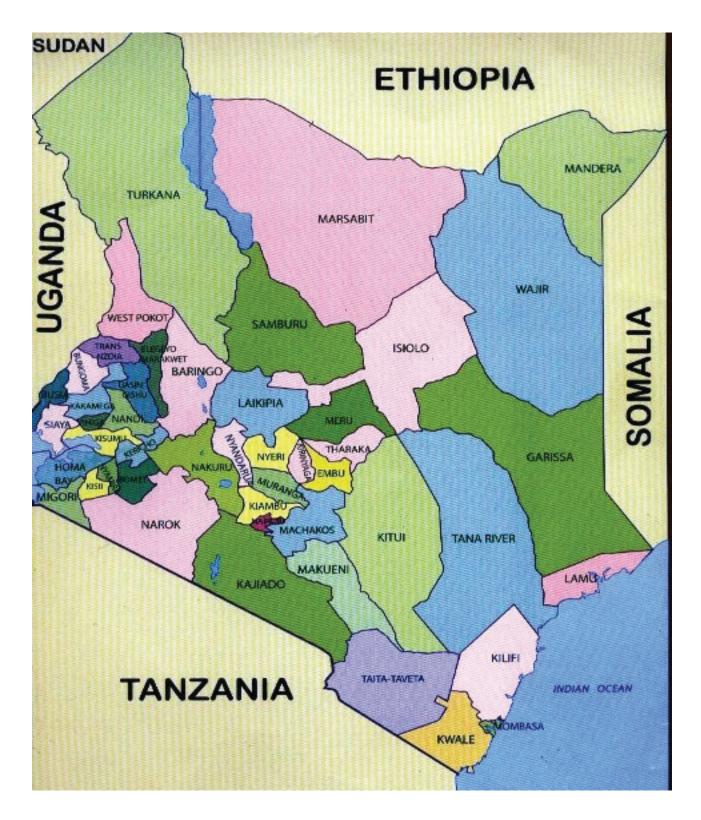
The implementation of this strategy falls under the leadership of the Principal Secretary Ministry of Health and Chief Officers of Health in the Counties in collaboration with Directorate of Public Service Management, Public Service Commission and County Public Service Boards and the Inter-Agency Coordination Committee of HRH at the National and County Levels. The implementation of this strategy will be guided by the indicators and targets set out in results framework. Annual action plans will be developed to guide the implementation of the strategy within the planning period.

Successful implementation of this HRH Strategy requires substantial resources and commitment of all stakeholders. The strategy aims at attracting funding agencies to join forces with government at the various levels to put in support for the optimum management and development of the health workforce in a well coordinated manner. Potential sources of funding for human resources for health management and development during the plan period 2014-2018 are as follows:

- 1. National Government
- 2. County Governments
- 3. Development partners and other external sources of funding
- 3. National Health Insurance Fund (NHIF)
- 5. Private Sector through Public-Private Partnerships
- 6. Faith-Based Organizations (CHAK, Kenya Conference of Catholic Bishops, Muslim Council, Hindu Council, etc)
- 7. Foundations
- 8. Individual businesspersons.

# **APPENDICES**

#### **APPENDIX 1: KENYA COUNTIES MAP**



# **APPENDIX 2: POPULATION BY COUNTIES**

#### 1. Baringo County

| IND | ICATOR    | 2011    | 2012    | Kenya 2012 |
|-----|-----------|---------|---------|------------|
| POP | ULATION 1 |         |         |            |
| 1   | Total     | 591,227 | 609,910 | 42,387,216 |
| 2   | Male      | 296,998 | 306,383 | 21,070,003 |
| 3   | Female    | 294,230 | 303,527 | 21,317,213 |

#### 2. Bomet County

| IND | ICATOR    | 2011    | 2012    | Kenya 2012 |
|-----|-----------|---------|---------|------------|
| POP | ULATION 1 |         |         |            |
| 1   | Total     | 770,678 | 795,031 | 42,387,216 |
| 2   | Male      | 382,821 | 394,918 | 21,070,003 |
| 3   | Female    | 387,857 | 400,113 | 21,317,213 |

#### 3. Bungoma County

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,735,638 | 1,790,484 | 42,387,216 |
| 2            | Male   | 846,671   | 873,426   | 21,070,003 |
| 3            | Female | 888,967   | 917,058   | 21,317,213 |

#### 4. Busia County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 519,409 | 535,822 | 42,387,216 |
| 2            | Male   | 246,974 | 254,778 | 21,070,003 |
| 3            | Female | 272,435 | 281,044 | 21,317,213 |

#### 5. Elgeyo Marakwet

| INDICATOR    |        | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 393,751 | 406,194 | 42,387,216 |
| 2            | Male   | 195,534 | 201,713 | 21,070,003 |
| 3            | Female | 198,218 | 204,481 | 21,317,213 |

#### 6. Embu County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 549,352 | 566,712 | 42,387,216 |
| 2            | Male   | 270,629 | 279,181 | 21,070,003 |
| 3            | Female | 278,723 | 287,531 | 21,317,213 |

#### 7. Garissa County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 663,060 | 684,012 | 42,387,216 |
| 2            | Male   | 356,442 | 367,705 | 21,070,003 |
| 3            | Female | 306,618 | 316,307 | 21,317,213 |

#### 8. Homa Bay County

| INI          | DICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|---------|-----------|-----------|------------|
| POPULATION 1 |         |           |           |            |
| 1            | Total   | 1,025,668 | 1,058,079 | 42,387,216 |
| 2            | Male    | 492,143   | 507,695   | 21,070,003 |
| 3            | Female  | 533,525   | 550,385   | 21,317,213 |

#### 9. Isiolo County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 152,493 | 157,312 | 42,387,216 |
| 2            | Male   | 78,425  | 80,903  | 21,070,003 |
| 3            | Female | 74,068  | 76,409  | 21,317,213 |

#### 10. Kajiado County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 731,436 | 754,550 | 42,387,216 |
| 2            | Male   | 367,304 | 378,911 | 21,070,003 |
| 3            | Female | 364,133 | 375,639 | 21,317,213 |

#### 11. Kakamega County

| INDIC        | ATOR   | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,767,262 | 1,823,108 | 42,387,216 |
| 2            | Male   | 852,411   | 879,348   | 21,070,003 |
| 3            | Female | 914,851   | 943,760   | 21,317,213 |

#### 12. Kericho County

| INDIC        | ATOR   | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 807,023 | 832,525 | 42,387,216 |
| 2            | Male   | 406,503 | 419,348 | 21,070,003 |
| 3            | Female | 400,521 | 413,177 | 21,317,213 |

#### 13. Kiambu County

| INDIC        | ATOR   | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,727,494 | 1,782,083 | 42,387,216 |
| 2            | Male   | 854,135   | 881,126   | 21,070,003 |
| 3            | Female | 873,359   | 900,957   | 21,317,213 |

#### 14. Kilifi County

| IND         | ICATOR | 2011      | 2012      | Kenya 2012 |
|-------------|--------|-----------|-----------|------------|
| POPULATION1 |        |           |           |            |
| 1           | Total  | 1,180,978 | 1,218,297 | 42,387,216 |
| 2           | Male   | 569,906   | 587,915   | 21,070,003 |
| 3           | Female | 611,072   | 630,382   | 21,317,213 |

#### 15. Kirinyaga County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 561,954 | 579,712 | 42,387,216 |
| 2            | Male   | 277,362 | 286,127 | 21,070,003 |
| 3            | Female | 284,592 | 293,585 | 21,317,213 |

#### 16. Kisii County

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,226,257 | 1,265,007 | 42,387,216 |
| 2            | Male   | 585,803   | 604,314   | 21,070,003 |
| 3            | Female | 640,454   | 660,692   | 21,317,213 |

#### 17. Kisumu County

| IND | ICATOR    | 2011      | 2012      | Kenya 2012 |
|-----|-----------|-----------|-----------|------------|
| POF | ULATION 1 |           |           |            |
| 1   | Total     | 1,031,112 | 1,063,695 | 42,387,216 |
| 2   | Male      | 505,239   | 521,204   | 21,070,003 |
| 3   | Female    | 525,873   | 542,490   | 21,317,213 |

#### 18. Kitui County

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,077,723 | 1,111,780 | 42,387,216 |
| 2            | Male   | 512,180   | 528,364   | 21,070,003 |
| 3            | Female | 565,544   | 583,415   | 21,317,213 |

#### 19. Kwale County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 691,656 | 713,512 | 42,387,216 |
| 2            | Male   | 336,284 | 346,910 | 21,070,003 |
| 3            | Female | 355,372 | 366,602 | 21,317,213 |

#### 20. Laikipia County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 424,857 | 438,282 | 42,387,216 |
| 2            | Male   | 211,376 | 218,056 | 21,070,003 |
| 3            | Female | 213,480 | 220,226 | 21,317,213 |

#### 21. Lamu County

| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 108,058 | 111,472 | 42,387,216 |
| 2            | Male   | 56,450  | 58,234  | 21,070,003 |
| 3            | Female | 51,607  | 53,238  | 21,317,213 |

#### 22. Machakos County

| IND         | ICATOR | 2011      | 2012      | Kenya 2012 |
|-------------|--------|-----------|-----------|------------|
| POPULATION1 |        |           |           |            |
| 1           | Total  | 1,169,112 | 1,206,055 | 42,387,216 |
| 2           | Male   | 578,008   | 596,273   | 21,070,003 |
| 3           | Female | 591,104   | 609,783   | 21,317,213 |

#### 23. Makueni County

|              |        | •       |         |            |
|--------------|--------|---------|---------|------------|
| IND          | ICATOR | 2011    | 2012    | Kenya 2012 |
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 941,312 | 971,058 | 42,387,216 |
| 2            | Male   | 458,361 | 472,845 | 21,070,003 |
| 3            | Female | 482,951 | 498,213 | 21,317,213 |

#### 24. Mandera County

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,091,608 | 1,126,103 | 42,387,216 |
| 2            | Male   | 595,891   | 614,721   | 21,070,003 |
| 3            | Female | 495,718   | 511,382   | 21,317,213 |

#### 25. Marsabit County

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,443,374 | 1,488,984 | 42,387,216 |
| 2            | Male   | 713,711   | 736,264   | 21,070,003 |
| 3            | Female | 729,662   | 752,720   | 21,317,213 |

#### 26. Meru

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,443,374 | 1,488,984 | 42,387,216 |
| 2            | Male   | 713,711   | 736,264   | 21,070,003 |
| 3            | Female | 729,662   | 752,720   | 21,317,213 |

#### 27. Migori County

| INDICATOR    |        | 2011    | 2012      | Kenya 2012 |
|--------------|--------|---------|-----------|------------|
| POPULATION 1 |        |         |           |            |
| 1            | Total  | 976,051 | 1,006,894 | 42,387,216 |
| 2            | Male   | 472,883 | 487,826   | 21,070,003 |
| 3            | Female | 503,168 | 519,068   | 21,317,213 |

#### 28. Mombasa County

| INDICATOR    |        | 2011    | 2012      | Kenya 2012 |
|--------------|--------|---------|-----------|------------|
| POPULATION 1 |        |         |           |            |
| 1            | Total  | 999,676 | 1,031,266 | 42,387,216 |
| 2            | Male   | 518,184 | 534,558   | 21,070,003 |
| 3            | Female | 481,492 | 496,708   | 21.317.213 |

#### 29. Muranga County

| INDICATOR    |        | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 1,003,093 | 1,034,791 | 42,387,216 |
| 2            | Male   | 487,258   | 502,656   | 21,070,003 |
| 3            | Female | 515,835   | 532,136   | 21,317,213 |

#### 30. Nairobi

| IND          | ICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|--------|-----------|-----------|------------|
| POPULATION 1 |        |           |           |            |
| 1            | Total  | 3,339,848 | 3,445,387 | 42,387,216 |
| 2            | Male   | 1,708,283 | 1,762,265 | 21,070,003 |
| 3            | Female | 1,631,564 | 1,683,122 | 21,317,213 |

#### 31. Nakuru County

| INE          | DICATOR | 2011      | 2012      | Kenya 2012 |
|--------------|---------|-----------|-----------|------------|
| POPULATION 1 |         |           |           |            |
| 1            | Total   | 1,706,256 | 1,760,174 | 42,387,216 |
| 2            | Male    | 856,235   | 883,292   | 21,070,003 |
| 3            | Female  | 850,021   | 876,882   | 21,317,213 |

#### 32. Nandi County

| INDICATOR    |        | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 801,304 | 826,625 | 42,387,216 |
| 2            | Male   | 400,658 | 413,319 | 21,070,003 |
| 3            | Female | 400,646 | 413,307 | 21,317,213 |

#### 33. Narok County

| IND          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 905,548 | 934,163 | 42,387,216 |
| 2            | Male    | 456,569 | 470,996 | 21,070,003 |
| 3            | Female  | 448,979 | 463,167 | 21,317,213 |

#### 34. Nyamira County

| IND          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 636,659 | 656,777 | 42,387,216 |
| 2            | Male    | 305,476 | 315,129 | 21,070,003 |
| 3            | Female  | 331,183 | 341,648 | 21,317,213 |

#### **35. Nyandarua County**

| INDICATOR    |        | 2011    | 2012    | Kenya 2012 |
|--------------|--------|---------|---------|------------|
| POPULATION 1 |        |         |         |            |
| 1            | Total  | 634,548 | 654,599 | 42,387,216 |
| 2            | Male   | 310,911 | 320,736 | 21,070,003 |
| 3            | Female | 323,637 | 333,864 | 21,317,213 |

#### 36. Nyeri County

| INE          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 738,083 | 761,407 | 42,387,216 |
| 2            | Male    | 361,535 | 372,959 | 21,070,003 |
| 3            | Female  | 376,549 | 388,448 | 21,317,213 |

#### **37. Samburu County**

| INE          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 238,324 | 245,855 | 42,387,216 |
| 2            | Male    | 119,198 | 122,964 | 21,070,003 |
| 3            | Female  | 119,126 | 122,891 | 21,317,213 |

#### 38. Siaya County

| INE          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 896,379 | 924,704 | 42,387,216 |
| 2            | Male    | 424,245 | 437,651 | 21,070,003 |
| 3            | Female  | 472,134 | 487,053 | 21,317,213 |

#### 39. Taita Taveta County

| IND | DICATOR   | 2011    | 2012    | Kenya 2012 |
|-----|-----------|---------|---------|------------|
| POP | ULATION 1 |         |         |            |
| 1   | Total     | 302,932 | 312,504 | 42,387,216 |
| 2   | Male      | 154,664 | 159,552 | 21,070,003 |
| 3   | Female    | 148,267 | 152,953 | 21,317,213 |

#### **40. Tana River County**

| INE | DICATOR      | 2011    | 2012    | Kenya 2012 |  |
|-----|--------------|---------|---------|------------|--|
| POP | POPULATION 1 |         |         |            |  |
| 1   | Total        | 255,487 | 263,561 | 42,387,216 |  |
| 2   | Male         | 127,547 | 131,578 | 21,070,003 |  |
| 3   | Female       | 127,940 | 131,983 | 21,317,213 |  |

#### 41. Tharaka Nithi

| INE          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 388,784 | 401,069 | 42,387,216 |
| 2            | Male    | 189,907 | 195,908 | 21,070,003 |
| 3            | Female  | 198,876 | 205,161 | 21,317,213 |

#### 42. Trans Nzoia

| INE          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 871,320 | 898,854 | 42,387,216 |
| 2            | Male    | 433,312 | 447,005 | 21,070,003 |
| 3            | Female  | 438,008 | 451,849 | 21,317,213 |

#### 43. Turkana County

| INI | DICATOR    | 2011    | 2012    | Kenya 2012 |
|-----|------------|---------|---------|------------|
| POF | PULATION 1 |         |         |            |
| 1   | Total      | 910,314 | 939,080 | 42,387,216 |
| 2   | Male       | 473,642 | 488,609 | 21,070,003 |
| 3   | Female     | 436,673 | 450,471 | 21,317,213 |

#### 44. Uasin Gishu

| IND          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 951,584 | 981,654 | 42,387,216 |
| 2            | Male    | 477,819 | 492,918 | 21,070,003 |
| 3            | Female  | 473,765 | 488,736 | 21,317,213 |

#### 45. Vihiga County

| IND          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 590,228 | 608,879 | 42,387,216 |
| 2            | Male    | 279,582 | 288,417 | 21,070,003 |
| 3            | Female  | 310,646 | 320,462 | 21,317,213 |

#### 46. Wajir County

| IND          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 704,437 | 726,697 | 42,387,216 |
| 2            | Male    | 387,119 | 399,352 | 21,070,003 |
| 3            | Female  | 317,317 | 327,345 | 21,317,213 |

#### **47. West Pokot County**

| IND          | DICATOR | 2011    | 2012    | Kenya 2012 |
|--------------|---------|---------|---------|------------|
| POPULATION 1 |         |         |         |            |
| 1            | Total   | 545,604 | 562,845 | 42,387,216 |
| 2            | Male    | 271,187 | 279,756 | 21,070,003 |
| 3            | Female  | 274,417 | 283,089 | 21,317,213 |

Source: Kenya County Poster-Fact Sheets

### **APPENDIX 3: KENYA HRH COMMITMENTS**

numan kesources for universal Health Coverage: a template for eliciting commitments.

Annex 1 - Submission form for HRH commitment pathways

Name of your institution or country:

**MINISTRY OF HEALTH - KENYA** 

What constituency do you represent? (Highlight or circle the one that applies)

| National Government | Professional association           | Not-for-profit NGO/ civil society | Private for-profit sector |
|---------------------|------------------------------------|-----------------------------------|---------------------------|
| Development partner | International/ multilateral agency | Academia/ research institution    | Other (please specify)    |

Contact person (please indicate the name, e-mail and phone number of the focal point in your institution / country for communications on HRH commitments)

| Name: Mr. James Macharia | E-mail                    | Phone Number |
|--------------------------|---------------------------|--------------|
| Cabinet Secretary        | cabsecretary@health.go.ke | +254 2248551 |

What human resources for health (HRH) -related actions and pathways can your country/ institution commit to? (Please include responsible organization, targets and expected completion dates)

The Health Sector Strategic focus in Kenya is guided by the overall Vision 2030 that aims to transform Kenya into a globally competitive and prosperous country with a high quality of life by 2030". Its actions are grounded in the principles of the Constitution of Kenya 2010, specifically aiming to attain the right to health, and to decentralize health services management through a devolved system of Governance. This strategic focus has been defined in the Kenya Health Policy, which has elaborated the long term policy directions the Country intends to achieve in pursuit of the imperatives of the Vision 2030, the 2010 constitution and global commitments.

The Kenya Health Policy 2012 - 2030 demonstrates the health sector's commitment, under government stewardship, to ensuring that the Country attains the highest possible standards of health, in a manner responsive to the needs of the population. The policy aims to achieve this goal through supporting provision of equitable, affordable and quality health and related services at the highest attainable standards to all Kenyans.



1



The Health Sector refers to all the Health and related sector actions needed to attain the Health Goals in Kenya. It is not restricted to the actions of the Health Ministry, but includes all actions in other related sectors that have an impact on health. It will guide both County and National Governments on the operational priorities they need to focus on in Health.

The Kenyan Government acknowledges that Health workers are one of the core building blocks of a health system. Global evidence points to a direct correlation between the size of a country's health workforce and its health outcomes. Kenya's health care system faces critical human resources for health demands which are similar to the health systems in many African countries. Recognizing that human resource demands are an integral part of the challenges confronting the National Health System, the National Human Resources for Health (HRH) Strategic Plan is one of the steps the government in collaboration with partners is taking to strengthen the HRH in order to deliver services more efficiently. There are myriad of challenges facing the Kenya's human resources for health which includes severe shortages of essential cadres, persistent inability to attract and retain health workers, poor and uneven remuneration among cadres, poor working conditions, inadequate or lack of essentials tools and medical and non-medical supplies, the unequal distribution of staff, and diminishing productivity among the health workforce, etc.

To this end, Kenya through its Ministry of Health proclaims its commitment at the 3<sup>rd</sup> Global HRH Conference to:

 Devolve the Human Resource for Health Interagency Coordinating Committee (HRH-ICC) to 47 Counties to oversee the implementation of HRH strategies in the Counties with linkage to existing national coordinating mechanism by 2015.

#### Target:

- Devolution of HRH-ICC to Counties by 2015
- Establishing a mechanism for linkage between National HRH-ICC and County HRH-ICC by 2015

**Responsible:** Ministry of Health/ County Governments.

2. Recruit at least 12,000 health workers per year by 2017 for health care delivery at facility level to support facility and community level health services.

Draft 28<sup>th</sup> October 2013

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#### larget:

 Recruit 12,000 health workers comprising at least (Nurses, Clinical Officers, Doctors, Laboratory technologists, Health records Officers, Nutritionists, Radiologists) per year to 2017

Responsible: Ministry of Health/ County Government

3. Recruit at least 40,000 community health extension workers (CHEWS) by 2017 to support community level health services and the one million community health worker campaign

#### Target:

- Recruit 40,000 community health extension workers (CHEWS) by 2017
- Advocacy to Counties to establish community health services within each county by 2017
- Establishment and functioning of community health units from 2,511 in June 2012 to 9,294 by 2017
- Establish a mechanism for Community Health insurance through National Hospital Insurance Fund (NHIF) as a modality for motivating the work as per the Kenyan context by 2015.

Responsible: Ministry of Health/ County Government

4. Increase spending in the Health Sector on HRH beyond staff salary and allowances by 2017.

#### Targets:

- Increase efficiency and effectiveness in use of available resources in health care delivery including HRH by 2017.
- Allocate HRH budgets beyond employees emoluments towards employee welfare, employee relations, reward and recognition, work climate improvement, occupation health and safety by 2017.
- Improve efficiency in HR processes for example recruitment, HR records management amongst others by reducing



3



the turnaround time and utilisation of ICT for cost effectiveness by 2017.

- Prepare guidelines and tools to help the County Governments budget and plan for health service delivery and commensurate HRH establishment by 2015.
- Take stock of the assets available in each county including HRH as a critical step in resource rationalisation for
  efficient and effective service delivery by 2014.

Responsible: Ministry of Health/ County Government/ Treasury.

5. Promote Public Private Partnership for Health Financing and establish mechanism for mutual benefits for a better health workforce and quality service delivery.

#### Target:

- Promote investment in health care by private sector with Counties in terms of infrastructure, ICT solutions and financing of HRH development for example through Afya Elimu fund and other initiatives by 2017.
- Adopt a multi-sectoral participatory approach for delivery of health interventions in attaining the best possible health outcomes between the public sector (beyond the health sector), private and private-not-for-profit sector, faith based organisations at County and National level by 2016
- Strengthen linkages with development partners in supporting government efforts towards funding initiatives towards improved service delivery, availability of health workers at facility level, and ongoing reforms in the health sector by 2017.
- Promote the National Health Insurance through increase effectiveness of National hospital insurance fund (NHIF) as a social health financing mechanism by 2015.
- Develop innovative and equitable financing strategies that enhance universal health coverage and access to healthcare by 2017
- Responsible: Ministry of Health

Draft 28<sup>th</sup> October 2013

How will you monitor progress towards achievement of your commitment pathways (What indicators will you track? What data sources will you use)?

Indicator 1: Existence of a functional County coordinating mechanism for the HRH in the 47 Counties

Indicator 2: Number of health workers recruited per year disaggregated by cadre.

Indicator 3: Number of CHEWs recruited by 2017

Indicator 4: Increase in spending in the Health Sector on HRH beyond staff salary and allowances.

Indicator 5: Public Private Partnership for Health Financing initiatives established that improve on the health workforce and quality of service delivery.

Would you or a representative of your country/ institution be available to announce your HRH commitment pathways at the Third Global Forum on Human Resources for Health in Recife, Brazil, on 10-13 November 2013?

(Yes/No)

Would you accept being contacted by the GHWA or WHO Secretariat after the Third Global Forum to follow up on the implementation of the HRH actions that you commit to?

(Yes/No)

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For any necessary clarifications, further information about HRH commitment pathways, to request the submission form in word format, and to submit your commitments please write to: globalforum2013@who.int with "commitments" in the subject line.Please submit your commitments before 10 November 2013 (earlier submissions are encouraged to facilitate inclusion in the Forum programme) RECEIVED

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Mr. James W. Macharia Cabinet Secretary

Signed:

Ministry of Health KENYA

Date:....

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# **Health Sector Human Resources Strategy 2014 – 2018**

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TOWARD KENYA'S SUSTAINABLE HEALTH WORKFORCE

