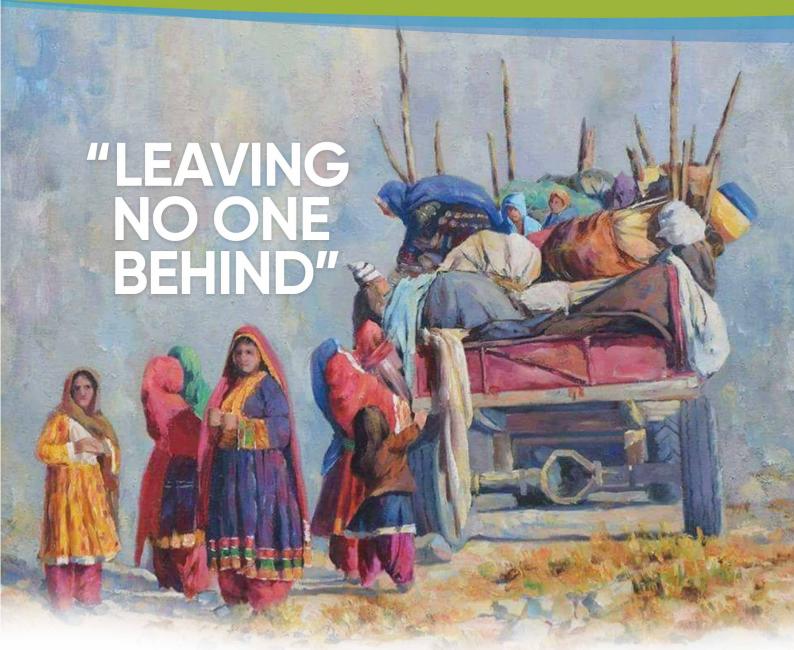




ESSENTIAL PACKAGE OF HEALTH SERVICESWITH LOCALIZED EVIDENCE



HEALTH DEPARTMENTGovernment of Khyber Pakhtunkhwa



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Essential Package of Health Services with localized evidence/ UHC Benefit Package of Khyber Pakhtunkhwa

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Health Planning, System Strengthening and Information Analysis Unit (HPSIU)

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ACRONYMS

AIDS Acquired Immune Deficiency Syndrome

AJK Azad Jammu & Kashmir

AKU Aga Khan University

ARV Anti-Retro-Viral therapy

BEMONC Basic Emergency Obstetrical and Neonatal Care

BOD Burden of Disease

CEMONC Comprehensive Emergency Obstetrical and Neonatal Care

CKD Chronic Kidney Disease

COPD Chronic Obstructive Pulmonary Disease

CVD Cardio Vascular Diseases

DALYs Disability Adjusted Life Years

DCP3 Disease Control Priorities – Edition 3

DFID UK's Department for International Development

EIP Early Inter-sectoral Prevention Policies

EPHS Essential Package of Health Services

EUHC Essential Universal Health Coverage

FCDO UK's Foreign Commonwealth Development Office

GAVI Global Alliance on Vaccine & Immunizations

GB Gilgit Baltistan

GDP Gross Domestic Product

GFATM Global Alliance to fight against AIDS, TB and Malaria

GNI Gross National Income

GPEI Global Polio Eradication Initiative

HIV Human Immuno-Deficiency Virus

HPP Highest Priority Package

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HPV Human Papilloma Virus

ICPD International Conference on Population & Development

IP Inter-sectoral Prevention Policies

IHR International Health Regulations

IMCI Integrated Management of Childhood Illnesses

JEE Joint External Evaluation

KP Khyber Pakhtunkhwa

LMIC Low-income and middle-income countries

LSHTM London School for Hygiene and Tropical Medicine

MCH Maternal and Child Health

MDGs Millennium Development Gaols

MDR Multi Drug Resistance

M/o NHSR&C Ministry of National Health Services, Regulation & Coordination

NTD Neglected Tropical Diseases

PMTCT Prevention of Mother-to-Child transmission

RH Reproductive Health

RUTF Ready to Use Therapeutic Food

SDGs Sustainable Development Goals

STI Sexually Transmitted Infections

TB Tuberculosis

UHC Universal Health Coverage

UN United Nations

UNICEF United Nations Children Fund

WASH Water, Sanitation & Hygiene

WB World Bank

WHO World Health Organization

MESSAGE

'Universal Health Coverage envisions health for all, including access to quality essential health services, provision of effective, quality and affordable essential medicines, commodities and vaccines both through public and private health sector. Investments in provision of essential health services underpin the reforms that the health care system in Khyber Pakhtunkhwa has been seeking. Universal Health Coverage Benefit Package provides the opportunity of reforming our health care system.'



Health is a fundamental human right for all people. There have been numerous efforts aimed at addressing the health needs of the people. There is no gainsaying that these efforts, while successful in some aspects, have not had the desired impact on health outcomes and much remains to be done.

Various factors have contributed to the still lagging health indicators. Though, the rate of burden of diseases in Khyber Pakhtunkhwa is comparatively less than other provinces, there has not been much difference in terms of the health system challenges. The government is committed to enhance health services coverage by tackling the chronic issues of financial crises, strengthening governance, ensuring availability of essential health workforce, addressing supply chain issues, to name a few.

The Khyber Pakhtunkhwa government over the last eight years has made tremendous progress at fulfilling the obligation towards the people by ensuring availability of health as a matter of right. Provision of services against diseases with high catastrophic expenditure have been covered under the Sehat Sahulat Programme, with coverage of all residents in the province, is a testament to the commitment of the government towards this aim. Now, the question is how to address high burden health challenges at community and primary healthcare level in a more comprehensive way.

The need for reforms, therefore, is inevitable and urgent. The development of a costed Essential Package of Health Services / Universal Health Coverage - Benefit Package of Khyber Pakhtunkhwa based on localized data is the first step towards evidence-based decision making and implementation. In this regard, I am grateful to the headship and support of Dr Faisal Sultan, Federal Minister of Health and his team in the Ministry.

The Disease Control Priorities 3 (DCP3) Translation project hosted at the London School of Hygiene and Tropical Medicine (LSHTM) and supported by the Bill & Melinda Gates Foundation (B&MGF) has extended collaboration in support of the provincial localization phase including the

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development of the KP EPHS. I deeply appreciate the continued support of Professor Ala Alwan, Principal Investigator and his colleagues at the DCP3 Secretariat. I am also personally thankful to Dr Mahipala Palitha, Head of WHO Office in Pakistan, Dr Zafar Mirza, WHO Advisor on UHC, Ms Aida Girma, UNICEF Representative and Ms Annabel Gerry, Head of Foreign Commonwealth Development Office (FCDO) for their continued strategic support and advice.

The road ahead is not easy, but must be traversed. As with any journey this will require careful planning. I take this opportunity to appreciate the efforts of Dr Mohammad Niaz, Director General Health Services and the KP UHC Technical Committee. I am fully confident that they are capable of seeing us through this journey and help us reach our destination of comprehensive health services for all residents of Khyber Pakhtunkhwa.

Taimur Khan Jhagra Health Minister Khyber Pakhtunkhwa

FOREWORD

Provision of health services to the people of Khyber Pakhtunkhwa is a higher calling. The Health Department of Khyber Pakhtunkhwa has undertaken various actions to enhance the reach and quality of services in the province over the last decade. While, there has been some improvement in health indicators, for others the interventions required are more extensive and complex.



Honourable Minister of Health, Mr Taimur Khan Jhagra has spearheaded the recent health sector reform agenda in Khyber Pakhtunkhwa. The reforms are all encompassing and aim at truly achieving the stated goal of 'Health for All' of the government. Under the guidance of the Honourable Minister for Health, the department has completed the extremely complicated process of finalizing the costed Essential Package of Health Services (EPHS)/ Universal Health Coverage (UHC) - Benefit Package of Khyber Pakhtunkhwa. This package ensures that those essential health services, meeting the high burden needs of the people, are made available considering efficiency and effectiveness, across the five health service delivery platforms - community, primary health care, first level hospital, tertiary hospital and population levels.

Improvements in public investment and partnership with the private sector can significantly enhance the efficiency of public investment. However, it is equally important to ensure efficiency gains at the design stage of policy and programmatic reform in the sector.

Significant challenges remain ahead in the implementation of the UHC Benefit Package. First, the financing required, to see the implementation of the UHC Benefit Package of Khyber Pakhtunkhwa to fruition, needs to be assessed and earmarked. This requires a comprehensive understanding of the existing fiscal space and financial gap analysis between actual spending and what will be required to carry out the essential interventions. Second, identification and capacity building of the critical workforce that will be involved in its implementation. And third, building a well-coordinated mechanism of collaboration with other line departments and sectors to ensure that the inter-sectoral interventions of the UHC Benefit Package of Khyber Pakhtunkhwa are successful in achieving the desired impact.

It gives me immense confidence to note that the Health Department, under the leadership of Dr Niaz Ahmad - Director General Health Services, Khyber Pakhtunkhwa, is ready to take on this responsibility. Dr Ahmad has been assisted in the endeavour of finalizing the costed UHC-BP of Khyber Pakhtunkhwa and the UHC Technical Committee. The way forward is in some ways uncharted as Pakistan is the first country not only to develop a costed UHC-BP but also moving towards its implementation with support of the World Bank, FCDO, B&MGF, GAVI, GFF, USAID, UN agencies and other partners in addition to investment from the government of Pakistan.

The secret to success lies in building a strong and robust mechanism to do what is needed for success. At the Health Department, Khyber Pakhtunkhwa we are positive and firm in our belief that we will follow through with commitment and dedication towards this end.

Muhammad Tahir Orakzai Secretary Health, Khyber Pakhtunkhwa

ACKNOWLEDGMENT

Good health is the topmost priority for the Government of Khyber Pakhtunkhwa for sustainable development. More recently, the Health Department KP has been a pioneer for a number of health sector initiatives including Medical Teaching Institutions Reforms, ensuring availability of Skilled Health Workforce in all health facilities, Sehat Sahulat Programme, Universal Social Protection for Health and Revamping of Primary Healthcare System etc.



The most important strategic priority for the health department is to deliver results of improved health outcomes through universal provision of essential health services, while ensuring efficiency and effectiveness.

Currently, half of the people in the province do not receive the essential health services they need and are pushed into extreme poverty each year. This must change. To make health for all a reality in KP, we need: individuals and communities who have access to high quality essential health services so that they take care of their own health and the health of their families; skilled health workers providing quality, people-centred care; and policy-makers committed to investing in universal health coverage.

The development of Essential Package of Health Services/ UHC Benefit Package of KP is a major milestone of the roadmap for achieving Universal Health Coverage in the province. In line with the vision of the Honourable Health Minister – Mr Taimur Khan Jhagra, and the esteemed guidance of Secretary Health – Muhammad Tahir Orakzai, Ex-Secretary Health – Mr Syed Imtiaz Hussain Shah, the Health Department has successfully localized the scientific evidence and used this for prioritization of interventions through an extensive consultative process for the finalisation of the Essential Package of Health Services (EPHS) / Universal Health Coverage (UHC) – Benefit Package (BP) of Khyber Pakhtunkhwa. This package is the most far-reaching health reform enacted in the province.

The UHC-BP of Khyber Pakhtunkhwa would not be possible without support from the Director General (Health) - Dr Rana Mohammad Safdar at the Federal Ministry of National Health Services, Regulations and Coordination. It must be acknowledged that Dr Safdar dedicated the technical team at the Health Planning, System Strengthening & Information Analysis Unit (HPSIU), under the leadership of Dr Malik Muhammad Safi and the technical lead - Dr Raza Zaidi, to assist the Health Department, Khyber Pakhtunkhwa in developing the package.

The Department acknowledges the technical and strategic support from Dr Ala Alwan, Principal Investigator of DCP3 Translation project, hosted at the LSHTM. WHO Representative for Pakistan Dr Palitha Mahipala and the provincial WHO Office deserve recognition regarding the support provided on this initiative. UNICEF Representative Ms. Aida Girma and provincial office

have provided incredible support to complete the task. Technical support from the Foreign Commonwealth Development Office (FCDO) on this initiative through Oxford Policy Management (OPM) is highly valued.

Lastly, but not the least, the efforts of the Health Sector Reforms Unit (HSRU), especially Dr. Ikram Ullah Khan and Dr. Shahid Khan, KP UHC Technical Committee and the core committee led by Dr. Shahid Younas must be recognized with the affirmation that this milestone event of a finalized EPHS/ UHC-BP of Khyber Pakhtunkhwa is not the end, rather the beginning of a long road ahead.

Dr Niaz Ahmad Director General Health Services, Khyber Pakhtunkhwa

CONTRIBUTIONS

The Health Department, Khyber Pakhtunkhwa (KP) played a lead role in the development of costed EPHS/ UHC Benefit Package of KP in collaboration with partners and stakeholders.

Involvement of stakeholders from the public & private health sector, implementing partners/ CSOs, academic institutions, UN and donor agencies was ensured for a comprehensive and inclusive dialogue.

Under guidance of:

Mr. Taimur Khan Jhagra, Health Minister, KP

Mr. Muhammad Tahir Orakzai, Secretary Health, KP

Chair of KP UHC Technical Committee

Dr. Niaz Ahmad, Director General Health Services, KP

KP UHC Core Team:

- Prof. Dr Zia ul Haq, Vice Chancellor, Khyber Medical University Peshawar KP
- Dr. Shaheen Afridi, Managing Director Health Foundation, KP
- Dr. Shahid Younas, Director Health Care Commission, KP
- Dr. Ikram Ullah Khan, Chief Health Sector Reforms Unit, Health Department KP
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- Dr. Mohammad Atif, Nutrition Officer, UNICEF
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EXECUTIVE SUMMARY

Universal Health Coverage (UHC) is based on the principle that all individuals and communities have equitable access to their needed health care, in good quality, without suffering financial hardship. A set of policy choices about benefits and their rationing are among the critical decisions for moving towards UHC. The three dimensions of UHC are: i) which services are covered and which needs to be included; ii) covered population and extension to non-covered; iii) reducing cost sharing and fees.

Designing a comprehensive package of health services considering burden of disease, cost effectiveness of interventions and social context is critical to define which services are to be covered through different platforms: i) community level; ii) primary healthcare centre level; iii) first level hospital; and iv) tertiary hospital; and v) population level. In addition, interventions related to inter-sectoral prevention and fiscal policies play a key role in moving towards UHC.

Disease Control Priorities – Edition 3 (DCP3) finalized in 2017 defines a model concept of essential universal health coverage (EUHC) that provides a starting point for country/province-specific analysis of priorities considering cost structures, epidemiological needs, and strategic priorities.

Development of a generic Essential Package of Health Services/ UHC Benefit Package of Pakistan was carried out jointly by the Ministry of National Health Services, Regulations & Coordination (NHSR&C) and Provincial/ Area Departments of Health and other key stakeholders. Following the same exercise, the Health Department, Khyber Pakhtunkhwa (KP) decided to localize scientific evidence in the context of province and use this to develop a costed Essential Package of Health Services.

The Health Department, KP led the process of localization with a quick review of availability of essential health services in the province compared to 218 DCP3 recommended interventions and 151 prioritized interventions in the generic national EPHS. The review indicated that:

- Overall, 50% (108/218) of the DCP3 recommended EUHC interventions and 80% (120/151) of the generic EPHS interventions are being currently implemented partially, out of which only 13% of EUHC and 21% of generic EPHS interventions are expected to be accessible in more than 50% of the health facilities of KP province;
- Out of the DCP3 recommended district level EUHC interventions, 46% (85/185) and out of the generic district level EPHS interventions 81% (94/117) are available partially in KP. Only 11% of district EUHC interventions and 17% of generic district EPHS interventions are available in more than 50% of facilities of KP;
- Infectious diseases and non-communicable diseases clusters appears comparatively to be neglected areas;
- Interventions at Community and PHC centre level platforms were also comparatively feeble.

After the review, scientific evidence was localized in the context of KP:

- It was decided to use the 'Description of Interventions' at national level as such as the same was developed at through consensus among stakeholders, using the latest guidelines and manuals.
- The **burden of disease data for KP** for the year 2019 from the Institute of Health Matrix & Evaluation was shared and used, rather than 2017 data used at the national level.
- Considering high burden of Malaria in FATA and some districts of KP, additional interventions
 related to Malaria were included for localization of evidence. These interventions were not
 prioritised in the generic EPHS at national level.
- The KP UHC Technical Committee as a group decided the baseline and year wise milestones for each proposed intervention. Year-wise targeted population for each intervention was defined using projected KP data from the 2017 census, latest national/provincial/area surveys, burden of disease data for KP produced by the Institute of Health Metrics and Evaluation (IHME), administrative data and other published research. The baseline for some interventions was identified through department's programmatic data. Year-wise milestones were kept realistic as the same has significant impact on the overall unit cost.
- The **unit costs** for around 170 interventions across the five platforms estimated for the national exercise were used with adjustments to staff pay scales for KP province.
- For the KP EPHS, the **Incremental cost-effectiveness ratio** (ICER) value identified in the generic national EPHS were used (considering availability of limited data in province).

Health Interventions Prioritization Tool (Hiptool) is a web-based digital tool developed by the University College of London (UCL) and was used to analyse, optimise health interventions and visualization of results (in addition to Excel sheets). Optimization of interventions based on – cost effectiveness, disability adjusted life years (DALYs) averted, targeted population, budgetary impact was done. This consequently led to the Investment Cascade of Interventions in KP to further analyse the evidence.

All evidence was reviewed and discussed in group work and then in a plenary. Later on, evidence was used for prioritisation of health interventions for KP EPHS. A total of 132 interventions were prioritized for five platforms including 98 interventions for District EPHS.

Platform	Immediate Priority Interventions	Unit Cost (\$)/ person/ year (inclusive of health system cost)	DALYs Avert	
1. Community level	21	3.74	530,138	
2. PHC centre level	35	3.28	1,255,150	
3. First level hospital	42	9.28	925,205	
District EPHS	98	16.30	2,710,492	
4. Tertiary hospital	22	8.15	342,263	
5. Population level	12	4.47	++	
All five platforms	132	28.92	3,052,755 ++	

- District EPHS included 98 interventions as immediate priority for EPHS, out of which 21 were at Community level, 35 at PHC centre level and 42 at First level hospital;
- An addition of 11 interventions through special initiatives will cost US\$6.14/ person/ year and will avert additional 119,612 DALYs through District EPHS.

Year wise unit costs and DALYs averted were also estimated whereas year-wise unit costs were also estimated using with 8% annual inflation rate. All costs also included health system costs.

Detailed health system needs and standards are included in this document considering prioritized interventions. It was also agreed to strengthen institutional capacity in the Health Department, KP to regularly localize and generate evidence for inclusion and exclusion of interventions in future.

ESSENTIAL PACKAGE OF HEALTH SERVICES OF KHYBER PAKHTUNKHWA

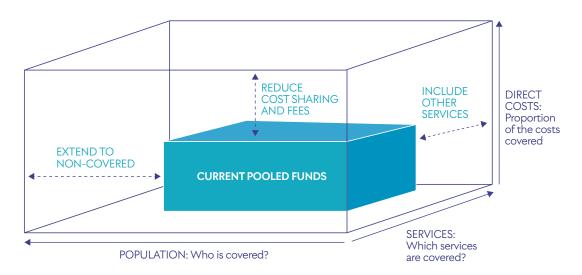
The Agenda for Sustainable Development 2015 was endorsed by the United Nations as an integrated global commitment to chart a new era for development and poverty reduction during the period 2015-2030. In this agenda, Universal Health Coverage (UHC) became the key outcome under the health goal of the Sustainable Development Goals (SDG).

The draft 12th Five Year Plan (health chapter), National Health Vision (2016) and Khyber Pakhtunkhwa (KP) Health Policy are underpinned by the idea to ensure provision of good quality essential health care services to all people through a resilient and equitable health care system.

KP Health Policy (2018-25) vision is:

'Accessible, equitable and quality healthcare for all people of Khyber Pakhtunkhwa to advance our community's wellbeing, productivity and prosperity'

UHC is based on the principle that all individuals and communities have equitable access to their needed health care, in good quality, without suffering financial hardship. A set of policy choices about benefits and their rationing are among the critical decisions in the reform of health financing system towards universal coverage. Choices need to be made about proceeding along each of the three dimensions in a way that best fits their objectives as well as the financial, organizational and political contexts. The three dimensions are: i) which services are covered and which needs to be included; ii) covered population and extension to non-covered; iii) reducing cost sharing and fees.



Three dimensions to consider when moving towards universal coverage

Disease Control Priorities – Edition 3 (DCP3)¹ defines a model concept of essential universal health coverage (EUHC) that provides a starting point for analysis of priorities. Pakistan is one of the first countries in the world to use the global review of evidence by the DCP3 to inform the definition of its EPHS/ UHC benefit package.

To transform the KP Health Vision into reality, one of the key actions is to develop province specific UHC Benefit Package. 'UHC Benefit Package' consists of i) **Essential Package of Health Services (EPHS)** at five platforms and ii) **Inter-sectoral Interventions/ policies**.

The KP Health Department in partnership with the DCP3 secretariat and funding of Bill & Malinda Gates Foundation (BMGF), World Health Organization (WHO), United Nations Children Fund (UNICEF), Foreign Commonwealth Development Office (FCDO) and the Ministry of National Health Services, Regulations & Coordination (NHSR&C), has ensured review and localisation of evidence to inform the prioritization of health interventions at five platforms for inclusion in the KP EPHS. Evidence was gathered on burden of disease in KP, unit cost and cost-effectiveness of each intervention, budget impact, feasibility, financial risk protection, equity and social context. In addition to economic evaluation, EPHS interventions incorporate evidence on intervention quality and uptake, along with non-health outcomes such as equity and financial protection.

The objective of the KP EPHS is to define which services are to be covered through **five different** platforms (both through public and private sector) for ALL people in Khyber Pakhtunkhwa:

1. Community level;

4. Tertiary hospital; and

2. Primary healthcare centre;

5. Population level

3. First level hospital;

Interventions at community, PHC centre and First level hospital are clubbed as the **District EPHS**, whereas interventions at tertiary hospital, population level and selected programmatic reforms are to be managed at provincial level. In addition, inter-sectoral policies can also play an important role in moving towards UHC and addressing around half of the burden of disease (BOD) in KP by mitigating risk factors.

This localized evidence was used to organise priority services into <u>four clusters</u> and <u>twelve</u> <u>categories</u>:

- a. Reproductive, maternal, new-born, child, adolescent health & nutrition/ Life course related cluster
- c. Non-communicable diseases & Injury prevention cluster

- b. Infectious diseases cluster
- d. Health services cluster

¹ http://dcp-3.org/



The evidence has been intensely reviewed by the technical experts and stakeholders, followed by critical review at the UHC Technical Committee of KP to select those health interventions that should be provided in the pathway to UHC, given the best estimates of the funding available to the government, partners and private sector.

HISTORY OF ESSENTIAL HEALTH SERVICES

Near the end of 19th century, the industrial revolution in Europe saw heavy disease and death tolls especially in urban areas. Early epidemiological discoveries about diseases like cholera, malaria, yellow fever etc., raised awareness about organization of medical services, clean water, sanitation, and living conditions. During the first half of the nineteenth century, different approaches were adopted by the European countries to tackle health challenges.

Later on, the Second World War damaged health infrastructures in many countries, paradoxically it also paved the way for the introduction of some reforms. Wartime Britain's national emergency service to deal with casualties was helpful in the construction of what became, in 1948, the National Health Service, perhaps the most widely influential model of a health system.

Japan and the Soviet Union also extended their limited national systems to cover most or all of the population, as did Norway and Sweden, Hungary and other communist states in Europe, and Chile. As former colonies (including Indo-Pak) gained independence, they also tried to adopt modern, comprehensive systems with heavy state participation.

At the time of independence in 1947, Pakistan inherited a wide range of public health problems. The majority of the country's population was illiterate, unaware of healthy lifestyles and practices, malnourished or under-nourished and living in low levels of environmental sanitation with majority having no access to safe drinking water. Situation was further aggravated by the fact that only a handful of doctors and skilled personnel were left behind to manage the situation.

In 1947, a large epidemiological outbreak of cholera in Egypt gave motivation to the development of tropical medicine for dealing with international outbreak containment. A programme of social uplift was also launched, and medical colleges were established in former East and West Pakistan. Later on, scope of health services remained under the influence of international declarations, global health initiatives and other development initiatives but largely focused on the disease specific approach to health. Pakistan's public health remained focused on small pox eradication, malaria eradication/ control and control of some other infectious diseases, as well.

A paradigm shift was witnessed in the health systems after the International Conference on Primary Health Care, Alma-Ata in 1978. Health for all (HFA) became the goal and achieving universal accessibility for populace through primary health care approach became the central theme. A large number of PHC facilities were established. In 1982, an alternate Selective PHC approach (GOBI – Growth monitoring, Oral rehydration salt, Breast feeding and Immunization) was launched, which mainly targeted childhood illnesses. The launch of the Lady Health Workers' Programme in 1994 was a major reform in the country, which also expressed the commitment of the government towards International Conference of Population and Development (ICPD).

During 1980s and 1990s the World Bank and other financial institutions assumed a more preeminent role in the health sector and for specific services private sector was also engaged. During 1990s, Global Health Initiatives (Global Polio Eradication Initiatives-GPEI; Global Fund to fight against AIDS, TB & Malaria – GFATM; Global Alliance for Vaccine and Immunization-GAVI etc.) started evolving and represented a radical shift towards these Initiatives.

In 2000, the Millennium Development Goals (MDGs) reinforced the vertical disease focused nature of development assistance with additional inclusion of hepatitis, blindness etc. along with some elements of health system strengthening indirectly through programmes focusing on maternal and child health supported by bilateral donors and multilateral banks. A number of management and institutional reforms were also tested to improve efficiency and effectiveness in the health system.

Over the period, focus of provincial governments remained on hospitals, while private sector emerged as a major service provider. However, private sector prioritized provision of private goods in health and provision of public goods remained largely the mandate of public sector.

The public sector always faced fiscal constraints due to which it could not provide essential health services to all. After 2005 Earthquake, an attempt was made to define very broad basic package of health services. At the same time at global level, concept of EPHS developed further mainly in conflict affected countries – notably Afghanistan, Somalia, Liberia, South Sudan and the Democratic Republic of the Congo to name but a few. The key feature was that all the EPHS proposals were drawn up immediately after conflict/ humanitarian crises in order to assist with comprehensive reform and reconstruction of public health infra-structure.

In Pakistan, a more formal attempt for developing an essential package of health services (EPHS) was made initially in the provinces of Punjab and Khyber Pakhtunkhwa during 2012-13, and later on in Sindh, corresponding with the 18th constitutional amendment. With UK's Department for International Development / Technical Resource Facility (TRF) support, costed EPHS were defined but remained limited to reproductive, maternal, new-born, child health and nutrition services at primary health care level. Non-communicable diseases, health emergencies, inter-sectoral interventions were not prioritized, while the implementation focus remained largely through the public sector, along with contracting out of health facilities to NGOs to a variable extent. Main objective was to ensure efficiency and effectiveness of health services in the system rather than provision of comprehensive EPHS to all people. However, this offered a good lesson learning opportunity for provision of a package of services, which was positively supported by development of minimum services delivery standards mainly at primary level. In parallel, legislative reforms were also initiated to establish healthcare commissions/ authority, to set service delivery standards and their enforcement both in the public and private sector.

Health Insurance Programme was first approved in June 2014 and launched on December 31st 2015. The Programme aimed at families living below the poverty line and were covered for up to Rs. 50,000 of treatment in public or private hospitals and for up to Rs. 300,000 for treatment of seven particularly expensive diseases: diabetes, cardiovascular diseases, cancer, kidney and liver diseases, HIV and Hepatitis complications, burns and road accidents. In 2019, the package of services was enhanced to nine diseases and per family support was increased to Rs. 720,000 per year.

The 2030 agenda on Sustainable Development in 2015 has provided another opportunity to revisit the health services and health system in Pakistan to ensure achievements of new targets and goals, which are more comprehensive and ambitious than MDGs. The Astana Declaration in 2018 is also expected to provide a fresh look on the PHC agenda.

In August 2018, an international meeting on Disease Control Priorities - Edition 3 (DCP3) was held in Pakistan and attended by Morocco, Lebanon, Iran, Jordan, Pakistan, WHO EMRO, University of Washington and other stakeholders including provincial departments of health. Soon after the workshop, and on the decision of Inter-Ministerial Health & Population Forum meeting held in September 2018, Pakistan proposed the DCP3 secretariat to select Pakistan as the first country in the World to adopt DCP3 recommended interventions. The proposal was agreed by the secretariat.

In July 2019, with support of the DCP3 secretariat and WHO, work related to development of generic UHC Benefit Package of Pakistan started through a consultative process with provincial / area Health Departments and other stakeholders. The generic EPHS was endorsed by the Inter-Ministerial Health & Population Council on 22nd October 2020. It was also decided to develop province specific EPHS. Khyber Pakhtunkhwa has thus developed its own provincial EPHS based on localized evidence.

UHC SITUATION IN KHYBER PAKHTUNKHWA

Khyber Pakhtunkhwa (KP) is committed to the sustainable agenda of 2030 and in health sector 'Universal Health Coverage' is the key outcome to ensure progress on health-related goal of 'Good Health'. Ensuring health services access without facing financial hardship is key to improving the well-being of population. Universal health coverage is an investment in human capital and a foundational driver of inclusive and sustainable economic growth and development.

Located in the northwestern area of Pakistan, KP is the smallest province geographically, characterized by increase population growth and a large refugee population. It faces a set of unique obstacles in the health sector including poor access and utilization of health services especially at community and primary healthcare level. Federally administered tribal area (FATA) having some of the worst health indicators was merged with the KP province on 31st May 2018.

The trend analysis of KP UHC service coverage index indicate a positive trajectory - 36.2 in 2015 to 47.6 in 2019. The projected population of KP province in 2021 is 39.3 million with more than 5.6 million children under 5 years of age and 7.9 million child bearing age women. The birth rate is estimated as 30.1 per 1000 population with total fertility rate is 4.4 children per women in 2017-18. The life expectancy is 67 years (66.3 years for males and 67.9 years for females)² with projected growth rate 2.4. However, the death rate is 6.1 per 1000 population.

With overall improvement in the rate of burden of diseases, KP is undergoing an epidemiological transition from communicable conditions to the emerging non-communicable conditions and injuries. Burden of the communicable, maternal, child and nutritional group, which was 63% (31,130 DALYs lost per 100,000 population) in 2000, has gone down to 55.1% (21,537 DALYs lost per 100,000 population) in 2019. However, the burden of non-communicable diseases (NCD) group which was 32.6% (16,050 DALYs lost per 100,000 population) of the total burden in the year 2000 has increased its share to 39.5% (15,457 DALYs lost per 100,000 population) in 2019. The share of burden of injuries increased from 4% (1,984 DALYs lost per 100,000 population) to 5.3% (2,078 DALYs lost per 100,000 population) over the same period.

The overall sexual and reproductive health in KP is assessed by maternal mortality ratio and has reached the level of 165/100,000 live birth from 2016-2019³. It is very high compared to other provinces. There are significant improvements in other maternal health indicators especially skilled birth attendant 67.4% and the institutional deliveries 61.8% in 2017-18⁴. However, there are serious equity concerns as quality services are not available in many hard-to-reach areas.

² IHME; Global Burden of Disease data for Balochistan, 2019

³ NIPS; 2020; Pakistan Maternal Mortality Survey, 2019

⁴ NIPS; Pakistan Demographic & Health Survey (2017-18)

Unfortunately, there has been slight progress in contraceptive prevalence rate with only 23.2% of couple is using the modern contraceptive methods. The lack of family planning leads to unintended pregnancies, leading to rising induced abortions and unplanned childbirth.

Maternal health has a direct impact on the new-born health. The neonatal mortality in KP is 42/1000 live births. Under-five mortality is 64/1000 live births and the infant mortality is as high as 53/1,000 live births in 2017-18. The DPT/ Penta III coverage is only 64.9%. KP province is facing the challenge of malnutrition, the under five children with stunting observed in KP accounting 40.4% (FATA: 52.3), however, 7.5% (FATA: 5.3%) are wasted. The women of reproductive age (15-49 years) with anemia are constituting 30.2%, whereas the prevalence of anemia among under five children is 47.3%.

In 2019, the incidence of Tuberculosis was 158/100,000 population and the Multi Drug Resistance cases (incidence rate) 9.18/ 100,000 population. The total notified cases in KP are 41,129 (FATA: 4,413) with case detection rate in KP 48% (FATA: 32%). However, treatment success rate in KP is 93% (FATA: 87%). The incidence rate of HIV & AIDS in KP is 4.64 per 100,000 population with the estimated people living with HIV & AIDS are 12,127 and the registered cases 4,113. However, the anti-retroviral therapy coverage is only 12-22% in KP.

According to KP burden of disease data for 2019, the prevalence of Hepatitis B is 68.5 per 100,000 people, while the prevalence of Hepatitis C is 14.8 per 100,000 people. For Hepatitis B and C, blood transfusion, therapeutic injections, syringe use and hospitalization are the main risk factors for disease transmission in the province. The endemic districts for Malaria are located in KP with API 2.76 (FATA: 6.83) and the number of new malaria cases was 1.1 million in 2019.

The shift of burden of disease from communicable to non-communicable diseases accounting for 50.35% of total deaths as reported by Global Burden of disease data for KP in 2019. Among NCDs, the cardiovascular disease accounts for 21.95% of total deaths and the number of cases with stroke and ischemic heart disease are 0.236 million and 0.6 million respectively. The second largest non-communicable group is cancers and neoplasms and are responsible for 9.92% of total deaths. The number of people living with mental health disorders are 4 million. Whereas with diabetes and the chronic liver disorders are 1.18 million and 5.17 million respectively.

KP is facing a critical shortage of essential health workforce with a very low density of essential /skilled health professional (physicians including specialists, nurses, lady health visitors (LHVs) and midwives) density of 1.2 per 1,000 population, which is much below the indicative minimum threshold of 4.45 physicians, nurses and midwives per 1,000 population necessary to achieve universal health coverage. For sustainable development, these are not adequate numbers with further challenge of non-equitable distribution of health workforce and less skills mix to provide quality services.

There have been deliberate efforts to increase access and demand for healthcare services in the province. Emphasis on improving quality of health services also needs to be prioritized in order to achieve UHC.

RATIONALE

The Health Department, KP is committed to improve the health of all people, particularly women and children by providing universal access to affordable, quality, essential health services which are delivered in an efficient way through a resilient and responsive health system. On the other hand, there are always financial constraints and the government is unable to provide even basic health services to all people resulting in poor health outcomes.

The trend analysis of KP UHC service coverage index indicate a positive trajectory - 36.2 in 2015 to 47.6 in 2019. However, the SDG baseline in 2015 for UHC coverage index in Khyber Pakhtunkhwa was much less than the average of sub-Saharan Africa at 42⁵. While considering different factors, one cannot ignore whether right essential health services are offered to all people or not.

It is therefore, critical to review the current status of health services and suggest cost-effective interventions through different platforms in such a way to avert maximum possible preventable burden of disease in the province.

⁵ WHO, 2016; World Health Statistics, Monitoring Health for SDGs

AIM AND PRINCIPLES

The UHC Essential Package of Health Services is a policy framework for service provision based on scientific evidence on health interventions. The <u>purpose</u> is to ensure that all people have access to essential health services (including prevention, promotion, treatment, rehabilitation and palliation) particularly in the context of limited resources. It <u>aims</u> to address current poor access to health and inequalities in health service provision. It also helps to establish and clarify health priorities and direct resource allocation accordingly.

The guiding **principles** adopted for the development process of the 'UHC benefit package' included the following:

- Setting of the package is country/province executed and owned with active engagement of policy makers and other stakeholders
- The package should enhance equity and improve access for vulnerable segments of the population
- Strong commitment and joint work of key stakeholders in government and stakeholders is essential for success
- The process should be open and transparent in all steps with clearly defined criteria, driven by evidence and a systematic approach of collaboration from data to dialogue and decisions
- Partnership with other stakeholders including UN agencies and development partners is a critical component of joint work
- Feasibility and affordability of implementation is key. Unrealistically aspirational package with inadequate financial resources or health system capacity is a recipe for failure
- The package developed should be linked to robust financing mechanisms and effective service delivery system

PROCESS FOR THE DEVELOPMENT OF KP EPHS

After the development of generic UHC Benefit Package for Pakistan, provincial adaptation of the UHC BP is a critical step for rolling out across the provinces. There are variations across the provinces in terms of health systems dynamics, situation with regards to the prioritized interventions at the national level and the service delivery issues. Consequently, it is important that each province/federating area, deliberate and prioritize interventions keeping in view the local context.

To implement the decision of developing province/area specific costed EPHS document, three options were considered by the KP Health Department:

- a. Adopt the generic UHC BP for Pakistan / EPHS as KP EPHS
- b. Consideration of the currently available KP specific evidence and use this for prioritization of interventions for KP EPHS
- c. Province specific detailed evidence generation followed by intervention prioritization

The Health Department, KP decided to opt for the option (b) of using KP specific available evidence to a maximum possible extent and use national evidence where evidence generation is time consuming and difficult. It was also decided to institutionalize the process in the Health Department, KP so that evidence is generated on a regular basis and that the department will make required changes in the EPHS in future if required. Later on, following steps were followed for the development of KP EPHS:

Step 1: Governance arrangement

To ensure clear and consistent governance of the UHC BP provincial localisation, it was important to set out the order of procedures for decision making across different tiers, roles and responsibilities while ensuring clear ways of engaging to support an inclusive process.

The governance arrangement recognizes the leadership of the Health Department - KP, while supported by the M/o NHSR&C, Partners and the UHC BP National Advisory Committee (NAC). Health Department, KP notified the KP UHC Technical Committee⁶ under the chairmanship of Director General Health Services (DGHS) - KP and with wider representation of different constituencies with following Terms of Reference (TOR):

- The UHC Technical Committee will act as KP specific Coordination and Facilitation architecture on UHC related interventions, projects and reform initiatives;
- Liaise with the Ministry of NHSR&C, other departments, partner organizations and stakeholders for effective coordination and harmonization;

⁶ Notification No. 786-03/HSRU/H/Vol III dated 11 March 2021; Notification and TOR of UHC Technical Committee KP Health Department

- Facilitate generating the localized evidence for province/area specific UHC Benefit Package and related reform initiatives;
- Collection, collation of available data and information on UHC related interventions and situation in the province/area;
- Based on available localized evidence, the group will produce background documents/ discussions papers, which will be used to guide the development of provincial/area UHC Benefit Package (including a: Essential Package of Health Services for all five platforms – community, PHC centre, First level hospital, Tertiary hospital and Population level; and b: Inter-sectoral interventions policies);
- Facilitate consultations at different levels to produce the project documents not limited to the National Health Support Project (NHSP), Global Financing Facility and Joint UHC Technical Assistance (TA) Plan of the province/area;
- Monitor the progress of implementation of UHC related interventions and suggest recommendations for the consideration of Health Department;
- The KP UHC Technical Committee may form sub-committees as per need.

The Health Department - KP also notified KP UHC Steering Committee⁷ under the chair of KP Health Minister with following TOR:

- Provide strategic direction to oversee and governing all KP UHC-Benefit activities;
- Drive the use of UHC-Benefit Package in policy and planning;
- Ensure stakeholders involvement in the KP UHC-Benefit Package process;
- Review and approve the recommendations of the KP UHC Technical Committee;
- Guide and approve work plans presented by the KP UHC Technical Committee;
- Resource mobilisation of funds for UHC Benefit Package activities for long term sustainability;
- Monitor implementation progress in pilot districts and facilitate addressing barriers and challenges;
- Revisit the UHC Benefit Package considering evidence generated locally.

The Health Department - KP also selected a UHC Coordinator and a Research Associate (with support of the DCP3 secretariat) to systematically carry out the activities for the development of KP UHC Benefit Package.

⁷ Notification No. SOG/HD/1-35/Gen Notification/2020 dated 24 March 2021: Notification and TOR KP UHC Steering Committee

Step 2: Provincial Sensitization, Review and Localisation of Evidence

After initial meetings with the Ministry of NHSR&C and DCP3 secretariat, first formal consultative workshop of the UHC Technical Committee was held on 17-18th of March 2021 to sensitize the stakeholders from KP on the process, appraise them of the UHC situation in the province, review the availability of essential health services and set baseline and milestones for all EPHS proposed interventions for KP.

It was agreed that the criteria used for the development of generic national EPHS will also be used in KP to guide the EPHS process. The criteria for the prioritization of interventions included:

1. Burden of Disease;

5. Equity;

2. Effectiveness of intervention:

6. Budget impact;

3. Feasibility;

7. Financial risk protection; and

4. Cost-effectiveness;

8. Social and economic impact.

Step 3: Review of Localized evidence and development of costed KP EPHS

The first workshop was followed by analytical work by the core team and HPSIU to generate KP specific evidence for the development of KP EPHS. The following evidence was collated for the prioritization of interventions:

- 1. Description of Interventions: developed during the generic EPHS to be used as such in KP as the same was developed at national level through consensus among stakeholders, using the latest guidelines and manuals.
- 2. Burden of Disease in Khyber Pakhtunkhwa: With availability of burden of disease data for KP, it was decided to apply province specific 2019 BOD data, instead of 2017 BOD data used at national level for the generic EPHS. Significant rise in the total burden of disease was observed in 2019 compared to 2017.
- 3. Target population for each Intervention: The KP UHC Technical Committee as a group decided the baseline and year wise milestones for each proposed intervention. Year-wise targeted population for each intervention was defined using projected KP data from the 2017 census, latest national/provincial/area surveys, Institute of Health Metrics and Evaluation (IHME) and other published research. The baseline for some interventions was also identified through department's programmatic data. Milestones were kept realistic rather than ambitious as the same has significant impact on the unit cost estimation.
- 4. Unit cost: For the generic EPHS at national level, unit costs were calculated for 170 interventions across the 5 platforms. Costs were calculated to be nationally representative, using a provider perspective. Staff requirements were described in terms of staff type and number of minutes of direct contact required. For some interventions, multiple drug regimens were described depending on the target population. For equipment, resources were quantified by the number of minutes used per intervention. The same cost components were used in the KP EPHS

considering the fact that the technical specifications of the interventions will remain the same. However, staff salaries were adjusted to the pay scales in KP and annual milestones defined by the KP UHC technical committee were used to make year-wise cost projections. In addition, an inflation rate 8% was also added separately for the forthcoming years.

- 5. Incremental cost-effectiveness ratio (ICER): For the KP EPHS, the ICERs value identified in the generic national EPHS were used (considering availability of limited data at provincial level), which were identified through the use of the Tufts registry and DCP3 databases on cost-effectiveness. The matching of the ICERs for each intervention went through a step-wise process along with assessment of quality of data.
- 6. Health Interventions Prioritization Tool (Hiptool): is a web-based digital tool developed by the University College of London (UCL) and was used to analyse, optimise health interventions and visualization of results. Optimization of interventions based on cost effectiveness, disability adjusted life years (DALYs) averted, targeted population, budgetary impact was done using the Hiptool. This consequently led to the Investment Cascade of Interventions in KP to further analyse the evidence.

The next step after generation of localized evidence / investment cascade, was a three-days' workshop held on 3-5 June 2021. The KP UHC Technical Committee deliberated to prioritize interventions into **immediate**, **special** and **high** priority categories, considering the fiscal space and availability of resources for the implementation.

Prioritized interventions were drafted as EPHS document for final review by the KP Core Committee and endorsement of the KP UHC Steering Committee.

⁸ Health Interventions Prioritization Tool Working Group. http://hiptool.org/

REVIEW OF AVAILABILITY OF ESSENTIAL HEALTH SERVICES IN KP

The review was carried out by the Health Department, KP and other key stakeholders to compare the current availability of Essential Health Services in the province against the DCP3 recommended 218 interventions for Essential UHC (EUHC) and 151 initially prioritized interventions under the generic EPHS of Pakistan.

Results are based on general consensus among 51 participants of KP UHC Technical Committee and gives a glimpse of health services in the province. However, there would be significant variation in service provision not only among districts of KP but also expected worse coverage in hard to reach/socio-economically poor districts.

Results in KP against the DCP3 recommended 218 EUHC interventions by platform and cluster are as following:

Platform	No of EUHC interventions	Not available	Available 1-25%	Available 26-50%	Available 51-75%	Available >75%
Community	59	68%	19%	5%	8%	-
PHC Centre	68	57%	24%	18%	-	1%
First Level Hospital	58	36%	14%	26%	22%	2%
Tertiary Hospital	20	15%	45%	5%	30%	5%
Population	13	54%	23%	23%	-	-

Cluster	No of EUHC interventions	Not available	Available 1-25%	Available 26-50%	Available 51-75%	Available >75%
RMNCH/Age related	59	25%	42%	24%	8%	-
Infectious diseases	51	75%	8%	6%	10%	2%
NCD and Injuries	52	60%	25%	12%	4%	-
Services access	56	46%	9%	20%	21%	4%
TOTAL	218	51%	21%	15%	11%	1%

Results in KP against the generic national EPHS initially prioritized 151 interventions by platform and cluster are as following:

Platform	No of EPHS interventions	Not available	Available 1-25%	Available 26-50%	Available 51-75%	Available >75%
Community	28	18%	54%	14%	14%	-
PHC Centre	43	33%	35%	26%	5%	2%
First Level Hospital	46	9%	22%	43%	26%	-
Tertiary Hospital	22	9%	36%	-	45%	9%
Population	12	50%	33%	17%	-	-

Cluster	No of EPHS interventions	Not available	Available 1-25%	Available 26-50%	Available 51-75%	Available >75%
RMNCH/Age related	53	4%	55%	30%	11%	-
Infectious diseases	30	53%	17%	10%	17%	3%
NCD and Injuries	29	28%	45%	21%	7%	-
Services access	39	13%	13%	31%	38%	5%
TOTAL	151	24%	32%	23%	18%	2%

Summary results of the review indicate that:

- Overall, 50% (108/218) of the DCP3 recommended EUHC interventions and 80% (120/151) of the generic EPHS interventions are being currently implemented partially, out of which only 13% of EUHC and 21% of generic EPHS interventions are expected to be accessible in more than 50% of the health facilities of KP province;
- Out of the DCP3 recommended district level EUHC interventions, 46% (85/185) and out of the generic district level EPHS interventions 81% (94/117) are available partially in KP. Only 11% of district EUHC interventions and 17% of generic district EPHS interventions are available in more than 50% of facilities of KP;
 - Out of the DCP3 recommended community level EUHC interventions, 32% (19/59) and out of the generic community level EPHS interventions 83% (23/28) are available partially in KP. However, only 9% of community level EUHC interventions and 15% of generic community EPHS interventions are available in more than 50% of communities;
 - Out of the DCP3 recommended PHC centre level EUHC interventions, 43% (29/68) and out of the generic PHC centre level EPHS interventions 68% (29/43) are available partially in KP. However, only 2% of PHC level EUHC interventions and 7% of generic PHC centre EPHS interventions are available in more than 50% of facilities;

- Out of the DCP3 recommended FLH level EUHC interventions, 64% (37/58) and out of the generic FLH level EPHS interventions 92% (42/46) are available partially in KP. However, only 25% of FLH level EUHC interventions and 26% of generic FLH EPHS interventions are available in more than 50% of facilities;
- Out of the DCP3 recommended TH level EUHC interventions, 85% (17/20) and out of the generic TH level EPHS interventions 90% (20/22) are available partially in KP. However, only 35% of TH level EUHC interventions and 55% of generic TH EPHS interventions are available in more than 50% of TH in KP;
- Out of the DCP3 recommended Population level EUHC interventions, 47% (6/13) and out of the generic population level EPHS interventions 50% (6/12) are available partially in KP. However, NIL of Population level EUHC interventions and NIL of generic Population level EPHS interventions are available;
- Out of the DCP3 recommended FLH level EUHC interventions, 64% (37/58) and out of the generic FLH level EPHS interventions 92% (42/46) are available partially in KP. However, only 25% of FLH level EUHC interventions and 26% of generic FLH EPHS interventions are available in more than 50% of facilities;
- Out of the DCP3 recommended TH level EUHC interventions, 85% (17/20) and out of the generic TH level EPHS interventions 90% (20/22) are available partially in KP. However, only 35% of TH level EUHC interventions and 55% of generic TH EPHS interventions are available in more than 50% of TH in KP;
- Out of the DCP3 recommended Population level EUHC interventions, 47% (6/13) and out of the generic population level EPHS interventions 50% (6/12) are available partially in KP. However, NIL of Population level EUHC interventions and NIL of generic Population level EPHS interventions are available;
- Analysis of cluster-based results indicate that out of 218 DCP3 recommended EUHC services, partially available RMNCH and age-related cluster interventions are 44/59 (75%), for infectious diseases cluster 13/51 (25%), for NCD & injuries cluster 21/52 (40%) and for health services cluster 30/56 (54%). Infectious diseases and non-communicable diseases clusters appears to be neglected areas;
- Analysis of cluster-based results indicate that out of 151 recommended generic EPHS services, partially available RMNCH and age-related cluster interventions are 51/53 (96%), for infectious diseases cluster 14/30 (46%), for NCD & injuries cluster 21/29 (72%) and for health services cluster 34/39 (88%). Again, infectious diseases and non-communicable diseases clusters need more attention.

The review concludes that

- Current services are not sufficient to make significant progress towards achieving UHC;
- Two platforms community and PHC centre level should have scaled up services through an integrated approach;
- Where services are included in the package they should be provided with the appropriate technology and to a high quality;
- EPHS should be a live document and should be reviewed regularly;
- UHC benefit package should also consider inter-sectoral interventions, which are mostly costeffective and have long lasting impact on the health outcomes.

AN OUTLINE OF KP EPHS WITH LOCALIZED EVIDENCE

The Essential Package of Health Services (EPHS) has been designed to provide a progressively improving access of essential health care services to the population considering fiscal space and based on the commitment of the government to achieve UHC.

The fiscal space is critically constrained and the health part of the government budget that provides sustainable resources for public purposes is very narrow. Although a gradual increase in health expenditure has been reported in recent years, health expenditure remains low in KP with equity issues. In Pakistan, public health expenditure is around 1% of the GDP whereas around 2% of the health expenditure is out-of-pocket. The total health expenditure per capita was US\$ 45 in 2015-16, of which public spending on health was around US\$ 14,10 much lower than the estimated cost of the packages and compared to other countries in the region.

Adequate public spending on essential health services is central to UHC, the current financial gap calls for exploring options to implement the recommended package in a way that is consistent with current fiscal realities but also take into account the potential to adopt approaches for progressive increase in resources and coverage of interventions.

While the government need to focus attention not only to enhance health sector allocations but also to gradually improve the coverage of essential health services especially in socio-economic poor districts. The contents of the EPHS are therefore a dynamic process that should be regularly updated and refined by the Health Department. District level interventions through community, PHC clinic and FLH are interlinked with each other and augment each other for maximum benefit.

Needless to say, prioritizing the government budget for EPHS is a very challenging task that requires full engagement of the highest level of government and relevant sectors specially the Department of Planning & Development, Department of Finance and the Federal government. Making the case for a higher level of investment in health requires:

Conducting fiscal space analysis and identifying potential sources of additional funding

- Linking revenue raising to a health financing strategy and investment plan
- Advocacy for political support and presenting evidence of efficiency and economic gains

⁹ WHO. https://www.who.int/health_financing/topics/fiscal-space/why-it-matter/en/

¹⁰ Federal Bureau of Statistics; National Health Accounts 2015-16

Details of interventions prioritized for the KP EPHS are as following:

Platform	Number of DCP3 recommended Interventions	High Priority Interventions (with split)	Immediate Priority Interventions (with split)	Interventions through Special Initiatives
1. Community level	59	28	21	6
2. PHC centre level	68	45	35	2
3. First level hospital	58	47	42	3
District EPHS	185	120	98	11
4. Tertiary hospital	20	22	22	-
5. Population level	13	12	12	-
All Five Platforms	218	154	132	11

A summary of interventions (immediate priority) of KP EPHS for the **year 2021** are as follows:

Platform	Immediate Priority Interventions	Unit Cost (\$)/ person/ year (inclusive of health system cost)	DALYs Avert
1. Community level	21	3.74	530,138
2. PHC centre level	35	3.28	1,255,150
3. First level hospital	42	9.28	925,205
District EPHS	98	16.30	2,710,492
4. Tertiary hospital	22	8.15	342,263
5. Population level	12	4.47	++
All five platforms	132	28.92	3,052,755 ++

An addition of 11 interventions through special initiatives will cost US\$6.14/ person/ year and will avert additional 119,612 DALYs through District EPHS:

- Unit cost of 6 community level special interventions is US\$ 0.39 with 3,357 DALYs avert;
- Unit cost of 2 PHC centre level special interventions is US\$ 0.09 with 4,995 DALYs avert;
- Whereas unit cost of 3 FLH special interventions is US\$5.67 with 11,259.

DALYs avert through population level interventions are difficult to measure but are expected to be highly cost-effective, especially in partnership with other provinces/ federating areas.

At the community level, majority of interventions are to be implemented through Lady Health Workers (LHWs), which cost US\$1.53 to US\$2.3/person/year depending upon the covered population per LHW (1,500 or 1,000 people respectively).

Implementation of EPHS progressively improves the coverage of essential health care services to the population and accordingly has cost implication and DALYs averted. Accordingly, projections from 2021 to 2027 are shown below.

	District EPHS – 120	interventions	District EPHS – 109 interventions (Immediate & Special)		
Year	Unit Cost (\$)(Inclusive of health system cost)	DALYs Averted	Unit Cost (\$) (Inclusive of health system cost)	DALYs Averted	
2021	29.16	3,116,433	22.44	2,830,104	
2022	31.02	3,211,578	23.97	2,912,860	
2023	33.80	3,378,554	26.42	3,050,443	
2024	36.76	3,575,738	29.04	3,231,439	
2025	39.89	3,748,112	31.89	3,387,804	
2026	42.95	3,908,595	34.66	3,533,829	
2027	45.62	4,021,703	37.05	3,632,370	

	DISTRICT EPHS – 98 interventions (Immediate Priority)							
Year	Unit Cost (\$)(Inclusive of health system cost)	DALYs Averted	Unit Cost (\$) 8% annual inflation rate					
2021	16.30	2,710,492	17.60					
2022	17.50	2,789,414	18.90					
2023	18.45	2,886,605	19.93					
2024	19.59	3,027,137	21.16					
2025	20.90	3,142,619	22.57					
2026	22.11	3,247,488	23.88					
2027	23.01	3,305,433	24.85					

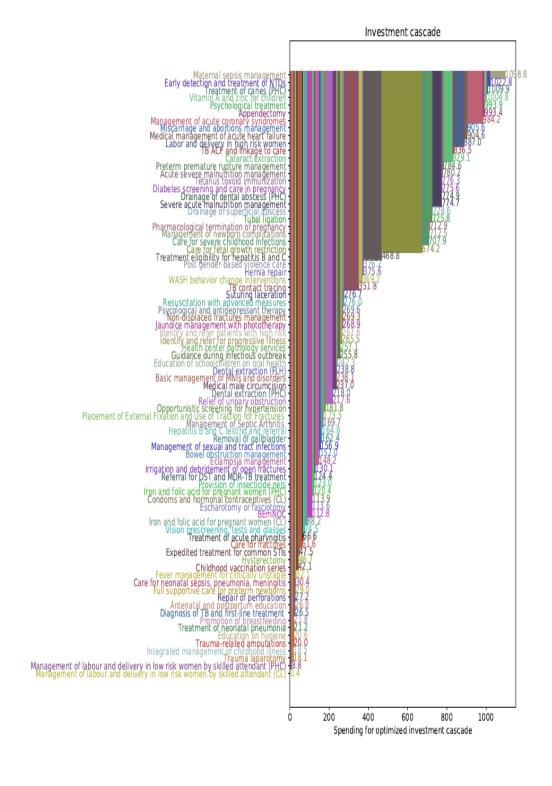
	Tertiary Hospital Level – 22 interventions							
Year	Unit Cost (\$)(Inclusive of health system cost)	DALYs Averted	Unit Cost (\$) with 8% annual inflation rate					
2021	8.15	342,263	8.81					
2022	8.61	358,946	9.30					
2023	9.01	376,093	9.73					
2024	9.73	402,912	10.50					
2025	10.60	431,432	11.45					
2026	11.56	463,608	12.48					
2027	12.47	488,961	13.47					

	Population Level – 12 interventions						
Year	Unit Cost (\$)	Unit Cost (\$) with 8% annual inflation rate					
2021	4.47	4.83					
2022		5.21					
2023		5.63					
2024		6.08					
2025		6.57					
2026		7.09					
2027		7.66					

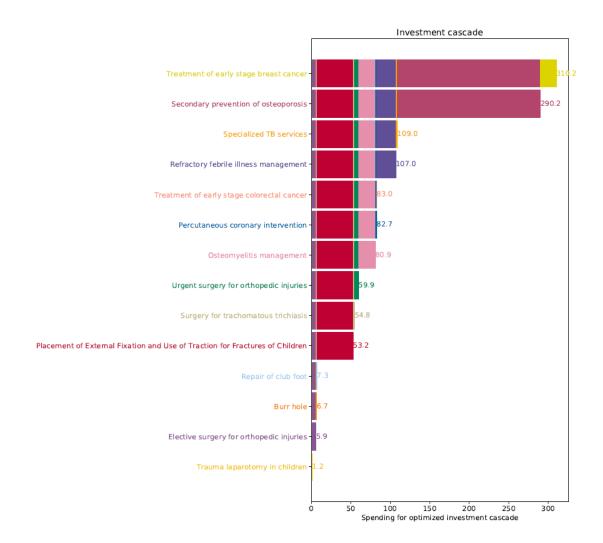
Note: Considering high incidence of malaria and other needs in Khyber Pakhtunkhwa, more district level interventions were considered for prioritization i.e., 120 interventions compared to 117 in the generic EPHS at national level

INVESTMENT CASCADES

Optimization of interventions based on localized evidence was done using – 'HiP Tool (Health Interventions Prioritization Tool)'. This consequently led to the **Investment Cascade of Interventions**, which suggest interventions may be prioritized for inclusion in EPHS, while considering fiscal space. Investment Cascade for 120 District level interventions for KP is as below:



Investment Cascade for Tertiary Hospital EPHS for KP is as below:



The following section provide details of interventions and evidence in the context of KP EPHS.

Localised Evidence of 120 Interventions for District EPHS and Prioritisation of Interventions

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate	Special Zinc Immediate
\$ noitrevention \$	0.55	1.19	18.34	9.06	20.80
Cost per capita PKR	1.07	2.32	46.82	23.12	44.13
Cost per capita \$	0.01	0.01	0.30	0.15	0.28
Budget Impact	Low	Low	High	Medium	Medium
Spending per Intervention USD % of total spending	0.02%	0.05%	1.03%	0.51%	0.97%
Spending per GSU noitnevrention	265,803	574,411	11,579,494	5,719,552	10,915,475
Burden of Diseases Munda DALYs per 100,000	10,775	2,428	615	2	258
ICEB	57	34	749	38,571	6,143
Cost effective-ness and	41	6	52	106	86
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Antenatal and postpartum education on family planning	Education on handwashing and safe disposal of children's stools	Pneumococcus vaccination	Rotavirus vaccination	Provision of vitamin A and zinc supplementation to children according to WHO guidelines, and provision of food supplementation to women and children in food insecure households
PCP 3 Code /UHC BP	C1- COM	C10- COM	C11- COM	C12- COM	C14- COM

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate
\$ noitnevvention \$	18.67	1.34	2.95	0.75
Cost per capita PKR	40.63	14.53	31.95	0.17
Cost per capita \$	0.26	0.09	0.21	0.00
Budget Impact	Medium	Low	Medium	Low
Spending per Intervention USD % of total spending	%68.0	0.32%	0.70%	%00.0
Spending per Intervention USD	10,049,598	3,594,290	7,901,843	41,964
Burden of Diseases Annual DALYs per 100,000	2,320	380	275	2,757
ICEB	121	1,082	229	54
Cost effective-ness and ranking	20	56	26	
Cluster	M NO H	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Childhood vaccination series (diphtheria, pertussis, tetanus, polio, BCG, measles, hepatitis B, Hib, rubella)	Education of school children on oral health	Vision pre-screening by teachers; vision tests and referral for glasses	Counselling of mothers on providing thermal care for preterm new-borns (delayed bath and skin-to-skin contact)
DCP 3 Code /UHC BP	C16- COM	C18- COM	C19- COM	C2- COM

Immediate/ Special Initiatives	Immediate	Immediate	Immediate
\$ noitnevvention \$	56.63 In	57.09 In	23.14 In
Cost per capita PKR	55.24	53.10	15.1
Cost per capita \$	0.36	0.34	0.01
Budget Impact	Į.	High	Low
Spending per Intervention USD % of total spending	1.21%	1.16%	0.03%
Spending per USU noitnevvertion	13,663,771	13,133,051	373,875
Burden of Diseases Annal DALYs per 100,000	477	477	10,085
ICEB	266	286	2
Cost effective-ness and ranking	27	Г	ю
Cluster	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Provision of iron and folic acid supplementation to pregnant women, and provision of food or caloric supplementation to pregnant women in food insecure households	Provision of iron and folic acid supplementation to pregnant women, and provision of food or caloric supplementation to pregnant women in food insecure households	Management of labour and delivery in low- risk women by skilled attendant
Piatform	C27a- COM	C27b- PHC	C3a- COM

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate	Immediate	Special
\$ noitnevvention \$	1.62	23.90	1.75	41.1	1.07	20.05
Cost per capita PKR	0.11	33.97	2.49	2.22	3.18	15.56
Cost per capita \$	0.00	0.22	0.02	0.01	0.02	0.10
Budget Impact	Low	Medium	Low	Low	Low	Low
Spending per Intervention USD % of total spending	0.00%	0.74%	0.05%	0.05%	0.07%	0.34%
Spending per Intervention USD	26,182	8,402,803	615,043	548,549	787,207	3,848,229
Burden of Diseases Annual DALYs per 100,000	10,085	10,085	10,085	2,612	187	704
ICEB	_	17	_	54	2,857	2,900
Cost effective-ness and ranking	2	വ	-	12	& &	88
Sluster	RMNCH	M N N O I	RMNCH	M N N O N	M NCH	Z N N O T O
noitnevvention Full Name of Intervention	Basic neonatal resuscitation following delivery	Management of labour and delivery in low- risk women by skilled attendant	Basic neonatal resuscitation following delivery	Promotion of breastfeeding or complementary feeding by lady health workers	Tetanus toxoid immunization among schoolchildren and among women attending antenatal care	Detection and management of acute severe malnutrition and referral in the presence of complications
PCP 3 Code /UHC BP	C3b- COM	C3c- PHC	C3d- PHC	COM	C5-PHC	C8- COM

Special Initiatives	∀	diate	diate	cial A+B)	diate	diate	diate
lmmediate/	Туре А	Immediate	Immediate	Special (Type A+B)	Immediate	Immediate	Immediate
\$ noitrevention \$	514.33	184.41	266.95	240.13	272.68	1.86	189.17
Cost per capita PKR	830.38	0.52	135.51	186.31	0.07	0.38	52.24
Cost per capita \$	5.36	0.00	0.87	1.20	0.00	0.00	0.34
Budget Impact	High	Low	H igh	High-	Low	Low	High
Spending per Intervention USD % of total spending	18.19%	0.01%	2.97%	4.08%	0.00%	0.01%	1.14%
Spending per Intervention USD	205,388,759	128,321	33,517,743	46,081,141	16,434	95,083	12,922,134
Burden of Diseases Annual DALYs per 100,000	2,809	10	5,684	704	4	102	102
ICEB	1,286	1,082	1,286	2,286	557	1,082	2,000
Cost effective-ness and ranking	77	67	76	85	48	59	82
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Detection and management of foetal growth restriction	Surgical termination of pregnancy by manual vacuum aspiration and dilation and curettage	Full supportive care for severe childhood infections with danger signs	Management of severe acute malnutrition associated with serious infection	Early detection and treatment of early-stage cervical cancer	Insertion and removal of long-lasting contraceptives (IUCDs and Implants)	Tubal ligation
Piatform DCP 3 Code /UHC BP	FLH1- FLH	FLH10- FLH	FLH11-	FLH12- FLH	FLH13- FLH	FLH14-	FLH15- FLH

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate	Immediate (Type A)
\$ noitnevvention \$	184.96	101.28	170.87	225.04	126.50
Cost per capita PKR	0.46	5.21	73.23	95.33	18.74
Cost per capita \$	0.00	0.03	0.47	0.62	0.12
Budget Impact	Low	Low	<u>т</u>	High	Low
Spending per Intervention USD % of total spending	0.01%	0.11%	1.60%	2.09%	0.41%
Spending per Intervention USD	113,457	1,287,695	18,113,940	23,579,656	4,634,907
Burden of Diseases Annual DALYs per 100,000	102	691	170	37	615
ICEB	314	1,082	429	13,571	1,429
Cost effective-ness and	33	99	37	102	78
TetelO	RMNCH	RMNCH	RMNCH	RMNOH	RMNCH
Full Name of Intervention	Vasectomy	Jaundice management with phototherapy	Management of eclampsia with magnesium sulphate, including initial stabilization at Health centre	Management of maternal sepsis, including early detection at Health centre	Management of newborn complications infections, meningitis, septicaemia, pneumonia and other very serious infections requiring continuous supportive care (such as IV fluids and oxygen)
PCP 3 Code /UHC BP	FLH16- FLH	FLH3- FLH	FLH4- FLH	FLH5- FLH	FLH6- FLH

Immediate/ Special Initiatives	Immediate	Immediate Type A, B	Immediate	Immediate
\$ noitnevvention \$	252.26	570.38	5.46	25.54
Cost per capita PKR	96.55	201.43	3.24	2.96
Cost per capita \$	0.62	1.30	0.02	0.02
Budget Impact	H igi T	High	Low	Low
Spending per Intervention USD % of total spending	2.12%	4.41%	0.07%	%90:0
Spending per DSU noitnevrention	23,879,816	49,823,328	801,539	733,227
Burden of Diseases Annual DALYs per 100,000	2,757	10,775	615	78
ICEB	35,714	3,703	4	2,571
Cost effective-ness and	105	92	10	87
Cluster	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Management of preterm labour with corticosteroids, including early detection at Health centre	Management of labour and delivery in high- risk women, including operative delivery (CEMONC)	Early detection and treatment of neonatal pneumonia with oral antibiotics	Screening and management of diabetes in pregnancy (gestational diabetes or pre-existing type II diabetes)
Piatform	FLH7- FLH	FLH8- FLH	HC1- PHC	HC10- FLH

Immediate/ Special Initiatives	Immediate (RHC & 24/7 BHU)	Immediate	Immediate	X (Through Inter- Sectoral and Population Level)
\$ noitnevvention \$	31.88	7.46	2.05	15.04
Cost per capita PKR	100.80	4.56	3.34	2.33
Cost per capita \$	0.65	0.03	0.02	0.02
Budget Impact	High	Low	Low	Low
Spending per Intervention USD % of total spending	2.21%	0.10%	0.07%	0.05%
Spending per DSU noitnevrention	24,932,187	1,129,027	826,491	576,792
Burden of Diseases Mundal DALYs per 100,000	10,775	6,510	821	866
ICEB	267	23	4,821	1,206
Cost effective-ness and ranking	28	7	97	120
Cluster	RMNCH	RANOH NOT	RMNCH	RMNCH
Full Name of Intervention	Management of labour and delivery in low-risk women (BEmONC), including initial treatment of obstetric or delivery complications prior to transfer	Detection and treatment of childhood infections with danger signs (IMCI)	Psychological treatment for mood, anxiety, ADHD, and disruptive behaviour disorders	Post gender-based violence care, including counselling, provision of emergency contraception, and rape-response referral (medical and judicial)
Piatform	HC11- PHC	HC12- PHC	HC14- PHC	HC16- PHC

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate
\$ noitrevention \$	5.10	28.95	176.45	15.20
Cost per capita PKR	24.79	60.6	18.46	1.17
Cost per capita \$	0.16	90:0	0.12	0.01
Budget Impact	Medium	Low	Low	Low
Spending per Intervention USD % of total spending	0.54%	0.20%	0.40%	0.03%
Spending per Intervention USD	6,132,834	2,247,483	4,566,159	288,470
Burden of Diseases Mundal DALYs per 100,000	244	10	3,488	343
ICEB	469	3,857	3,041	286
Cost effective-ness and ranking	43	93	06	32
Cluster	RMNCH	R N N C H	RMNOH	RMNOH
Full Name of Intervention	Syndromic management of common sexual and reproductive tract infections (for example urethral discharge, genital ulcer, and others) according to WHO guidelines	Management of miscarriage or incomplete abortion and post abortion care	Management of preterm premature rupture of membranes, including administration of antibiotics	Provision of condoms and hormonal contraceptives, including emergency contraceptives
DCP 3 Code /UHC BP	HC17- PHC	HC2- PHC	HC3-	HC4a- COM

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate (Type A)	Immediate	Immediate
\$ noitnevvention \$	15.20	79.0	0.67	66.11	17.18	0.43
Cost per capita PKR	9.87	0.14	0.31	5.83	2.27	1.00
Cost per capita \$	0.06	0.00	0.00	0.04	0.01	0.01
Budget Impact	Low	Low	Low	Low	Low	Low
Spending per Intervention USD % of total spending	0.22%	%00.0	0.01%	0.13%	0.05%	0.02%
Spending per Intervention USD	2,440,903	34,717	76,386	1,442,974	560,320	246,143
Burden of Diseases Annual DALYs per 100,000	343	2,077	2,077	615	10	170
ICEB	6,501	430	430	107	1,714	132,148
Cost effective-ness and ranking	∞	39	40	8	79	108
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	R N N N N N
noitnevternion Pull Name of Intervention	Provision of condoms and hormonal contraceptives, including emergency contraceptives and IUDs	Counselling of mothers on providing kangaroo care for new-borns (CL)	Counselling of mothers on providing kangaroo care for new-borns (PHC)	Management of neonatal sepsis, pneumonia, and meningitis using injectable and oral antibiotics	Pharmacological termination of pregnancy	Screening of hypertensive disorders in pregnancy
PCP 5 Code /UHC BP	HC4b-	HC5a- COM	HC5b- PHC	HC6- FLH	HC7- PHC	HC9a- COM

Immediate/ Special Initiatives	Immediate	Immediate	Immediate (In Malaria high-risk districts)	Special
\$ noit Cost/ Intervention \$	7.11	38.63	1.68	2.24
Cost per capita PKR	23.79	7.21	0.72	0.00
Cost per capita \$	0.15	0.05	0.00	0.00
Budget Impact	Medium	Low	Low	Low
Spending per Intervention USD % of total spending	0.52%	0.16%	%00.0	%0000
Spending per GSU noitnevrention	5,883,725	1,783,711	178,973	772
Burden of Diseases 000,001 req sYJAO launnA	170	10,298	214	6
ICEB	132,148	83	217	286
Cost effective-ness and ranking	107	16	25	13
Cluster	RMNCH	RMNCH	RMNCH	Infectious Disease Cluster
Full Name of Intervention	Screening and management of hypertensive disorders in pregnancy	Full supportive care for preterm new-borns	In high malaria transmission settings, indoor residual spraying (IRS) in selected areas with high transmission and entomologic data on IRS susceptibility	Community-based HIV testing and counselling (for example, mobile units and venuebased testing), with appropriate referral or linkage to care and immediate initiation of lifelong ART
Piatform	нсур- РНС	RH1-FLH	C17- PHC	C28- COM

Immediate/ Special Initiatives	Special	Special	Immediate	×
\$ noitnevvention \$	22.65	8.05	13.86	2.64
Cost per capita PKR	0.03	0.26	304.03	1
Cost per capita \$	00:00	0.00	1.96	1
Budget Impact	Low	Low	High	Low
Spending per Intervention USD % of total spending	%00'0	0.01%	99.99%	%00.0
Spending per Intervention USD	7,814	63,877	75,200,497	1
Burden of Diseases Annual DALYs per 100,000	343	343	1,266	214
ICEB	286	286	1,082	1,082
Cost effective-ness and ranking	112	30	73	117
YətsulƏ	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	Provision of condoms to key populations, including sex workers, men who have sex with men, people who inject drugs (IDU), transgender populations, and prisoners	Provision of disposable syringes to people who inject drugs (IDU)	Routine contact tracing to identify individuals exposed to TB and link them to care	For malaria due to P. vivax, test for G6PD deficiency; if normal, add chloroquine or chloroquine plus 14-day course of primaquine
Piatform DCP 3 Code /UHC BP	C30a- COM	C30b- COM	C32- COM	C33- PHC

Immediate/ Special Initiatives	×	Immediate	Immediate
\$ noitnevvention \$	12.71	0.90	0.45
Cost per capita PKR	51.94	8.39	16.78
Cost per capita \$	0.34	0.05	0.11
Budget Impact	<u>т</u>	Low	Low
Spending per Intervention USD % of total spending	1.14%	0.18%	0.37%
Spending per GSU noitnevrention	12,847,502	2,075,156	4,150,311
Burden of Diseases Annual DALYs per 100,000	1 2	474	1,954
ICEB	8,857	1,082	1,082
Cost effective-ness and ranking	101	89	20
Sluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	Early detection and treatment of Chagas disease, human African trypanosomiasis, leprosy, and leishmaniases	Identify and refer patients with high risk including pregnant women, young children, and those with underlying medical conditions (also in RMNCH)	In the context of an emerging infectious outbreak, provide advice and guidance on how to recognize early symptoms and signs and when to seek medical attention
PCP 5 Code /UHC BP	C43- COM	C45-	C46-

DCP 3 Code /UHC BP	FLH17- tr FLH dr dr tr tr tr tr tr	FLH18- F- FLH Grant Gran
noitnevvention Full Name of Intervention	Referral of cases of treatment failure for drug susceptibility testing; enrolment of those with MDR-TB for treatment per WHO guidelines (either short or long regimen)	Evaluation and management of fever in clinically unstable individuals using WHO IMAI guidelines, including empiric parenteral antimicrobials and antimalarials and resuscitative measures for septic shock
Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Cost effective-ness and ranking	34	4
ICER	314	116
Burden of Diseases 000,001 req sYJAG launnA	141	21,404
Spending per Intervention USD	1,386,596	1,630,536
Spending per Intervention USD % of total spending	0.12%	0.14%
Budget Impact	Low	Low
Cost per capita \$	0.04	0.04
Cost per capita PKR	5.61	6.59
\$ noitrevention \$	597.42	135.02
Immediate/ Special Initiatives	Immediate	Immediate

Immediate/ Special Initiatives	Special	Special	Immediate
\$ noitnevvention \$	301.91	3.88	3.69
Cost per capita PKR	374.37	10.11	16.14
Cost per capita \$	2.42	0.07	0.10
Budget Impact	H Egi	Low	Low
Spending per Intervention USD % of total spending	8.20%	0.22%	0.35%
Spending per DSU noitnevrention	92,597,649	2,500,523	3,992,802
Burden of Diseases Annual DALYs per 100,000	454	454	343
ICEB	1,251	504	156
Cost effective-ness and ranking	75	45	22
Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	For individuals testing positive for hepatitis B and C, assessment of treatment eligibility by trained providers followed by initiation and monitoring of antiviral treatment when indicated	Hepatitis B and C testing of individuals identified in the national testing policy (based on endemicity and risk level), with appropriate referral of positive individuals to trained providers	Partner notification and expedited treatment for common STIs, including HIV
Piatform	HC19- FLH	HC20- PHC	HC21- PHC

Immediate/ Special Initiatives	Immediate	Immediate	Immediate
\$ noitnevvention \$	4.37	2.67	40.05
Cost per capita PKR	0.34	1	85.52
Cost per capita \$	0.00		0.55
Budget Impact	Low	Low	H Pgi T
Spending per Intervention USD % of total spending	0.01%	%00'0	1.87%
Spending per GSU noitnevrention	84,847	ı	21,152,171
Burden of Diseases Annual DALYs per 100,000	797	239	343
ICEB	429	386	1,081
Cost effective-ness and ranking	88	6	411
Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	Provider-initiated testing and counselling for HIV, STIs, and hepatitis, for all in contact with health system in high-prevalence settings, including prenatal care with appropriate referral or linkage to care including immediate ART initiation for that testing positive for HIV	As resources permit, hepatitis B vaccination of high-risk populations, including healthcare workers, PWID, MSM, household contacts, and persons with multiple sex partners	Provision of male circumcision service (also in Health Services)
DCP 3 Code /UHC BP	HC23-	HC24- FLH	HC25- PHC

Immediate/ Special Initiatives	Immediate
\$ noitnevvention \$	20.19
Cost per capita PKR	0.59
Cost per capita \$	0.00
Budget Impact	Low
Spending per Intervention USD % of total spending	0.01%
Spending per GEU noitnevretnl	146,937
Burden of Diseases Annual DALYs per 100,000	1,266
ICEB	271
Cost effective-ness and ranking	110
Cluster	Infectious Disease Cluster
Full Name of Intervention	For PLHIV and children under five who are close contacts or household members of individuals with active TB, perform symptom screening and chest radiograph; if there is no active TB, provide isoniazid preventive therapy according to current WHO guidelines
DCP 3 Code /UHC BP	HC26- PHC

Piatform	HC27-	HC28- COM
Full Name of Intervention	Diagnosis of TB, including assessment of rifampicin resistance using rapid molecular diagnostics (UlraXpert), and initiation of first-line treatment per current WHO guidelines for drug-susceptible TB; referral for confirmation, further assessment of drugresistance, and treatment of drugresistant TB	Screening for HIV in all individuals with a diagnosis of active TB; if HIV infection is present, start (or refer for) ARV treatment and HIV care
Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Cost effective-ness and ranking	<u>t</u>	4
ICEB	55	4
Burden of Diseases	1,266	6
Spending per Intervention USD	4,734,172	246
Spending per Intervention USD % of total spending	0.42%	%00:0
Budget Impact	Low	Low
Cost per capita \$	0.12	00.00
Cost per capita PKR	1.7.1	0.00
\$ noitnevvention \$	92.76	2.46
lmmediate/ Special Initiatives	×	×

Immediate/ Special Initiatives	Immediate	×	×	Immediate
\$ noitnevvention \$	4.20	8.58	4.90	99.0
Cost per capita PKR	1.33	13.05	34.16	0.71
Cost per capita \$	0.01	0.08	0.22	0.00
Budget Impact	Low	Low	Medium	Low
Spending per Intervention USD % of total spending	0.03%	0.29%	0.75%	%00'0
Spending per Intervention USD	328,250	3,226,876	8,448,992	174,994
Burden of Diseases Annual DALYs per 100,000	21,404	474	474	474
ICEB	1,082	286	1,082	318
Cost effective-ness and	116	29	63	35
neter!	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	Evaluation and management of fever in clinically stable individuals using WHO IMAI guidelines, with referral of unstable individuals to first-level hospital care	Provision of insecticide- treated nets to children and pregnant women attending Health Centre	Identify and refer to higher levels of health care patients with signs of progressive illness	Conduct larvicide and water-management programs in high malaria transmission areas where mosquito breeding sites can be identified and regularly targeted
Piatform	HC30- PHC	HC32- PHC	HC33- PHC	C34- PHC

Immediate/ Special Initiatives	Immediate	X (Inter-sectoral)	Special	Immediate
Unit Cost/ Intervention \$	0.78	1.08	429.07	8. 44.
Cost per capita PKR	30.40	70.41	317.60	29.92
Cost per capita \$	0.20	0.45	2.05	0.19
Budget Impact	Medium	H Egi	H r	Medium
Spending per Intervention USD % of total spending	0.67%	1.54%	%96.9	%990.0
Spending per Intervention USD	7,518,601	17,415,005	78,556,835	7,400,749
Burden of Diseases O00,001 req sYLAG lsunnA	1,266	2,775	1,730	943
ICEB	3,571	1,082	4,593	15,714
Cost effective-ness and ranking	81	28	95	103
Sluster	Infectious Disease Cluster	NCD &	NCD & IPC	NCD &
Full Name of Intervention	Systematic identification of individuals with TB symptoms among highrisk groups and linkage to care ("active case finding")	WASH behaviour change interventions, such as community-led total sanitation	Management of acute coronary syndromes with aspirin, unfractionated heparin, and generic thrombolytics (when indicated)	Management of acute exacerbations of asthma and COPD using systemic steroids, inhaled beta-agonists, and, if indicated, oral antibiotics and oxygen therapy
Piatform	P5-COM	C51- COM	FLH20-	FLH22- FLH

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate
\$ noitnevention \$	620.43	267.52	30.13	9.93
Cost per capita PKR	71.18	15.43	0.15	2.61
Cost per capita \$	0.46	0.10	0.00	0.02
Budget Impact	High	Low	Low	Low
Spending per Intervention USD % of total spending	1.56%	0.34%	%00.0	%90.0
Spending per Intervention USD	17,606,933	3,815,335	35,938	644,764
Burden of Diseases Annual DALYs per 100,000	12	86	291	4,792
ICEB	3,857	457	1,082	1,082
Cost effective-ness and ranking	94	42	57	61
Sluster	NCD &	NCD &	NCD &	NCD &
noitnevvention Full Mame of Intervention	Medical management of acute heart failure	Management of bowel obstruction	Management of intoxication/poisoning syndromes using widely available agents; e.g., activated charcoal, naloxone, bicarbonate, antivenom	Long-term combination therapy for persons with multiple CVD risk factors, including screening for CVD in community settings using non-lab-based tools to assess overall CVD risk
Piatform DCP 3 Code /UHC BP	FLH23- FLH	FLH24- FLH	FLH30-	HC36- PHC

Immediate/ Special Initiatives	Special	Immediate	Immediate	Immediate	Immediate
\$ noitnevvention \$	2.54	0.89	10.06	2.98	4.87
Cost per capita PKR	3.76	0.66	69.6	0.63	37.27
Cost per capita \$	0.02	0.00	0.00	0.00	0.24
Budget Impact	Low	Low	Low	Low	Medium
Spending per Intervention USD % of total spending	%80.0	0.01%	0.21%	0.01%	0.82%
Spending per Intervention USD	929,371	162,746	2,396,928	155,595	9,219,613
Burden of Diseases Annual DALYs per 100,000	943	1,730	536	426	426
ICEB	25,180	443	8,737	1,082	214
Cost effective-ness and	104	4	100	09	24
Cluster	NCD &	NCD &	NCD &	NCD &	NCD &
Full Name of Intervention	Low-dose inhaled corticosteroids and bronchodilators for asthma and for selected patients with COPD	Provision of aspirin for all cases of suspected acute myocardial infarction	Screening of albuminuria kidney disease including targeted screening among people with diabetes	Secondary prophylaxis with penicillin for rheumatic fever or established rheumatic heart disease	Treatment of acute pharyngitis in children to prevent rheumatic fever
Piatform	HC37- PHC	HC38- PHC	HC39a- PHC	HC41- PHC	HC42- PHC

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Special
\$ noitnevvention \$	21.85	32.58	14.01	1.19
Cost per capita PKR	35.58	11.89	0.63	1
Cost per capita \$	0.23	0.08	0.00	1
Budget Impact	Medium	Low	Low	Low
Spending per Intervention USD % of total spending	0.78%	0.26%	0.01%	%00:0
Spending per Intervention USD	8,801,435	2,940,891	155,782	1
Burden of Diseases Mundal DALYs per 100,000	4,306	922	309	246
ICEB	571	1,082	1,857	1,082
Cost effective-ness and ranking	49	83	80	1
Cluster	NCD &	NCD & IPC	NCD &	Health Services
Full Name of Intervention	Opportunistic screening for hypertension for all adults and initiation of treatment among individuals with severe hypertension and/or multiple risk factors	Management of depression and anxiety disorders with psychological and generic antidepressant therapy	Targeted screening for congenital hearing loss in high-risk children using otoacoustic emissions testing	Identification/screening of the early childhood development issues motor, sensory and language stimulation
DCP 3 Code /UHC BP	HC45- PHC	HC50- PHC	HC56-	C53a- COM

Immediate/ Special Initiatives	×	Immediate	Immediate (Type A+B)	Immediate (Type A+B)	Immediate (Type A+B)	Immediate (Type A+B)	Immediate (Type A+B)
\$ noitnevvention \$	12.97	275.31	294.82	308.82	249.46	327.23	378.07
Cost per capita PKR	14.17	37.26	0.49	3.25	56.83	18.39	23.07
Cost per capita \$	0.09	0.24	0.00	0.02	0.37	0.12	0.15
Budget Impact	Low	Medium	Low	Low	High	Low	Medium
Spending per Intervention USD % of total spending	0.31%	0.82%	0.01%	0.07%	1.24%	0.40%	0.51%
Spending per Intervention USD	3,504,802	9,214,875	121,623	802,756	14,056,559	4,549,046	5,705,065
Burden of Diseases Annual DALYs per 100,000	246	43	75	89	2,326	132	2,326
ICEB	1,082	4,814	86	276	157	139	410
Cost effective-ness and	109	96	17	111	23	21	36
Sluster	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services
Full Name of Intervention	Early childhood development rehabilitation interventions, including motor, sensory, and language stimulation	Appendectomy	Colostomy	Escharotomy or fasciotomy	Fracture reduction and placement of external fixator and use of traction for fractures	Hysterectomy for uterine rupture or intractable postpartum haemorrhage	Irrigation and debridement of open fractures
DCP 3 Code /UHC BP	C53b- PHC	FLH31- FLH	FLH34- FLH	FLH35- FLH	FLH36- FLH	FLH38- FLH	FLH39- FLH

Immediate/ Special Initiatives	Immediate (Type A+B)	Immediate	Immediate	Immediate (Type A+B)	Immediate (Type A)	Immediate	Immediate (Type A+B)	Immediate (Type A+B)
\$ noitnevvention \$	402.29	343.42	221.13	304.47	384.42	80.20	354.17	310.39
Cost per capita PKR	19.64	14.63	144.70	22.16	1.66	26.11	37.68	6.01
Cost per capita \$	0.13	0.09	0.93	0.14	0.01	0.17	0.24	0.04
Budget Impact	Low	Low	High Cg	Low	Low	Medium	Medium	Low
Spending per Intervention USD % of total spending	0.43%	0.32%	3.17%	0.49%	0.04%	0.57%	0.83%	0.13%
Spending per CSU noitnevter	4,858,219	3,617,528	35,790,511	5,482,188	411,211	6,456,967	9,319,695	1,487,481
Burden of Diseases Annual DALYs per 100,000	309	1,525	202	58	100	2,066	2,326	2,326
ICEB	529	529	743	486	74	1,082	20	33
Cost effective-ness and ranking	47	46	51	4	5	64	9	ω
Cluster	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services
Full Name of Intervention	Management of septic arthritis	Placement of External Fixation and Use of Traction for Fractures	Relief of urinary obstruction by catheterization or suprapubic cystostomy	Removal of gallbladder including emergency surgery	Repair of perforations (for example, perforated peptic ulcer, typhoid ileal perforation)	Resuscitation with advanced life support measures, including surgical airway	Trauma laparotomy	Trauma-related amputations
Piatform	FLH41a- FLH	FLH41b- FLH	FLH42- FLH	FLH43- FLH	FLH44- FLH	FLH45- FLH	FLH48a- FLH	FLH49- FLH

Immediate/ Special Initiatives	Immediate	Immediate	Immediate (RHC)	Immediate	Immediate (RHC)	Immediate	Immediate	Immediate	Immediate	Immediate (RHC)
\$ noitnevvention \$	84.88	8.69	19.37	22.29	14.56	16.03	13.47	1.65	2.83	25.38
Cost per capita PKR	0.30	0.07	1.89	2.53	96.0	13.13	2.07	0.04	2.61	20.89
Cost per capita \$	0.00	0.00	0.01	0.02	0.01	0.08	0.01	0.00	0.02	0.13
Budget Impact	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Spending per Intervention USD % of total spending	0.01%	0.00%	0.04%	%90:0	0.02%	0.29%	0.05%	%00.0	%90:0	0.46%
Spending per GSU noitnevtertion	73,216	16,785	467,832	625,153	238,241	3,248,599	512,217	10,022	646,255	5,165,811
Burden of Diseases Annual DALYs per 100,000	2,488	89	106	106	27	7	2,326	2,066	2,326	27
ICEB	1,082	800	1,000	1,082	2,543	2,159	1,082	1,082	1,082	6,644
Cost effective-ness and ranking	55	53	54	72	86	84	71	69	99	66
Cluster	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services
Full Name of Intervention	Tube thoracostomy	Compression therapy for amputations, burns, and vascular or lymphatic disorders	Dental extraction (PHC)	Dental extraction (FLH)	Drainage of dental abscess (PHC)	Drainage of superficial abscess	Management of non- displaced fractures	Resuscitation with basic life support measures	Suturing laceration	Treatment of caries
Piatform	FLH50- FLH	FLH52- FLH	HC57a- PHC	HC57b- FLH	HC58a- PHC	HC59- PHC	HC60-	HC61- PHC	HC62- PHC	HC63a- PHC

lmmediate/ Special Initiatives	Immediate	(Cost included in other interventions)	Immediate (Type A+B+C)	Immediate
Unit Cost/ Intervention \$	8.77	22.14	242.94	240.15
Cost per capita PKR	6.23	5.15	179.64	25.94
Cost per capita \$	0.04	0.03	1.16	0.17
Budget Impact	Low	Low	High	Low
Spending per Intervention USD % of total spending	0.14%	0.11%	3.94%	%00.0
Spending per Intervention USD	1,541,158	1,273,435	44,432,375	6,415,455
8 Burden of Diseases Munden of Diseases	3,277	474	80	32
ICEB	1,082	1,082	3,143	1,086
Cost effective-ness and ranking	62	70	91	74
Cluster	Health Services	Health Services	Health Services	Health Services
Full Name of Intervention	Basic management of musculoskeletal and neurological injuries and disorders, such as prescription of simple exercises and sling or cast provision	Health centre pathology services	Cataract extraction and insertion of intraocular lens	Hernia repair including emergency surgery
DCP 3 Code /UHC BP	HC64- PHC	HC68- PHC	RH14- FLH	FLH37a- FLH

Note: Health System cost at district level is included

LEGENDS			
	Strong and positive evidence		Intervention recommended for Immediate implementation
	Medium positive evidence		Intervention recommended for implementation through Special initiative
	Weak positive evidence	×	Not an immediate priority

Localised Evidence for 22 Prioritized Interventions in Tertiary Hospital EPHS

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate	Immediate	Immediate
\$ noitnevvention \$	236.76	497.65	230.43	406.99	311.08	331.15
Cost per capita PKR	732.47	11.20	0.36	84.72	185.48	4.80
Cost per capita \$	4.7	0.1	0.0	0.5	1.2	0.0
Budget Impact	H F	Medium	Low	High	H F	Low
Spending per Intervention S OSD % of total spending	58.0%	%6'0	0.0%	6.7%	14.7%	0.4%
Spending per Intervention USD	181,170,379	2,770,566	87,992	20,953,848	45,876,579	1,186,010
Burden of Diseases	309	753	32	309	1,525	2,326
ICEB	2,186	286	17	799	529	20
Cost effective-ness and	16	4	-	10	6	2
Cluster	NCD & IPC	Health Services	Health Services	Health Services	Health Services	Health Services
Full Name	Calcium and vitamin D supplementation for secondary prevention of osteoporosis	Craniotomy for Trauma	Hernia Repair Including Emergency Surgery for neonates and infants	Management of osteomyelitis, including surgical debridement for refractory cases	Placement of External Fixation and Use of Traction for Fractures of Children	Trauma laparotomy in children
DCb 2 Code	FLH25	FLH33	FLH37b	FLH40	FLH41c	FLH48b

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate
\$ noitnevventl \text{12coD tinU}	789.13	1,077.50	48.18	2.75
Cost per capita PKR	8.19	96.87	0.36	00.0
Cost per capita \$	0.1	9.0	0.0	0.0
Budget Impact	Medium	High	Low	Low
Spending per Intervention S OSU % of total spending	%9.0	7.7%	%0.0	%0:0
Spending per Intervention USD	2,026,544	23,959,260	88,206	827
Burden of Diseases	1,266	21,404	943	813
ICEB	1,082	1,082	15,714	415
Cost effective-ness and ranking	21	13	C	ഥ
neter!	Infectious Disease Cluster	Infectious Disease Cluster	NCD & IPC	NCD & IPC
Full Name	Specialized TB services, including management of MDR- and XDR-TB treatment failure and surgery for TB	Management of refractory febrile illness including etiologic diagnosis at reference microbiological laboratory	Management of acute ventilatory failure due to acute exacerbations of asthma and COPD; in COPD use of bilevel positive airway pressure preferred	Retinopathy screening via telemedicine, followed by treatment using laser photocoagulation
DCb2Coqe	RH2	RH 3	RH 4	RH 5

Immediate/ Special Initiatives	Immediate	Immediate	Immediate
\$ noitnevvention \$	411.42	2,086.46	640.73
Cost per capita PKR	7.11	81.36	1.27
Cost per capita \$	0.0	0.5	0.0
Budget Impact	Medium	H Bi	Low
Spending per Intervention SOLD % OF total spending	%9.0	6.4%	0.1%
Spending per Intervention USD	1,757,597	20,123,716	314,671
Burden of Diseases	1,730	378	72
ICEB	962	9,286	1,071
Cost effective-ness and ranking	1	7-1	12
Cluster	NCD & IPC	NCD & IPC	NCD & IPC
Full Name	Use of percutaneous coronary intervention for acute myocardial infarction where resources permit	Treatment of early- stage breast cancer with appropriate multimodal approaches (including generic chemotherapy), with curative intent, for cases that are detected by clinical examination at Health Centre	Treatment of early- stage colorectal cancer with appropriate multimodal approaches (including generic chemotherapy), with curative intent, for cases that are detected by clinical examination at Health centre
DCb2Coqe	RH6	RH7	8H8

Immediate/ Special Initiatives	Immediate	Immediate	Immediate
\$ noitnevventl \text{12eoD tinU}	2,364.42	383.83	282.40
Cost per capita PKR	ı	18.88	20.84
Cost per capita \$	ı	0.1	0.1
Budget Impact	Low	T E	High
Spending per Intervention S OSU % of total spending	%0.0	1.5%	1.6%
Spending per Intervention USD	ı	4,670,681	5,154,513
Burden of Diseases	479	2,326	2,326
ICEB	1,571	157	529
Cost effective-ness and ranking	20	ю	7
Cluster	NCD & IPC	NCD & IPC	NCD & IPC
Full Иате	Treatment of early- stage childhood cancers (such as Burkitt and Hodgkin lymphoma, acute lymphoblastic leukaemia, retinoblastoma, and Wilms tumour) with curative intent in paediatric cancer units or hospitals	Elective surgical repair of common orthopaedic injuries (for example, meniscal and ligamentous tears) in individuals with severe functional limitation	Urgent, definitive surgical management of orthopaedic injuries (for example, by open reduction and internal fixation)
DCb2Coqe	RH 9	RH 10	RH 11

Immediate/ Special Initiatives	Immediate	Immediate	Immediate	Immediate	Immediate	Immediate
\$ noitnevvention \$	824.18	152.26	369.21	404.19	396.54	218.67
Cost per capita PKR	0.59	2.36	0.13	0.37	ı	9.60
Cost per capita \$	0.0	0.0	0.0	0.0	ı	0.0
Budget Impact	Low	Low	Гом	Low	Low	Medium
Spending per Intervention S OSU % of total spending	%0:0	0.2%	%0:0	%0:0	%0:0	0.5%
Spending per Intervention USD	145,980	583,734	31,806	90,651	-	1,631,788
Burden of Diseases	81	38	51	54	51	48
ICEB	11,286	474	1,082	1,082	226	529
Cost effective-ness and ranking	18	9	13	13	22	7
neter!	NCD & IPC	NCD & IPC	Health Services	Health Services	Health Services	Health Services
Full Name	Repair of cleft lip and cleft palate	Repair of club foot	Repair of anorectal malformations and Hirschsprung's Disease	Repair of obstetric fistula	Insertion of shunt for hydrocephalus	Surgery for trachomatous trichiasis
DCb2Code	RH12	RH13	RH15	RH16	RH17	RH18

Note: Health System cost at district level is included

LEGENDS			
	Strong and positive evidence		Intervention recommended for Immediate implementation
	Medium positive evidence		Intervention recommended for implementation through Special initiative
	Weak positive evidence	×	Not an immediate priority

12 Prioritized Interventions at Population Level

Code	Intervention	Cluster	Unit Cost \$ / Capita
P1-P1	Mass media messages concerning sexual and reproductive health and mental health for adolescents (Also included in HIV and Mental health packages of services)	RMNCH	0.11
P2-P2	Mass media messages concerning healthy eating or physical activity (Also included in CVD and Musculoskeletal packages of services)	RMNCH	0.11
C25-P3	Education campaign for the prevention of gender-based violence	RMNCH	0.11
P4-P4	Mass media encouraging use of condoms, voluntary medical male circumcision and STI testing	RMNCH	0.11
P6-P5	Sustained integrated vector management for effective control of visceral Leishmaniasis, dengue, chikungunya, CCHF, and other nationally important causes of non-malarial fever vector borne NTDs	Infectious Disease Cluster	0.11
P13-P6	Mass media messages concerning awareness on handwashing and health effects of household air pollution	Infectious Disease Cluster	0.11
P7-P7	Conduct a comprehensive assessment of International Health Regulations (IHR) competencies using the Joint External Evaluation (JEE) tool	Infectious Disease Cluster	0.00
P10-P8	Develop and implement a plan to ensure surge capacity in hospital beds, stockpiles of disinfectants, equipment for supportive care and personal protective equipment	Infectious Disease Cluster	2.84
P11-P9	Develop plans and legal authority for curtaining interactions between infected persons and un-infected population and implement and evaluate infection control measures in health facilities	Infectious Disease Cluster	0.06
P8-P10	Conduct simulation exercises and health worker training for outbreak events including outbreak investigation, contact tracing and emergency response	Infectious Disease Cluster	0.01
P9-P11	Decentralize stocks of antiviral medications to reach at risk groups and disadvantaged populations	Infectious Disease Cluster	0.81
P3-P12	Mass media messages concerning use of tobacco (Also included in CVD package of services)	NCD & IPC	0.11

HEALTHCARE DELIVERY SYSTEM IN KHYBER PAKHTUNKHWA

Khyber Pakhtunkhwa public healthcare delivery system functions as an integrated health complex that is administratively managed at the district level. The government provide healthcare through a three-tiered healthcare delivery system and community-based interventions. The former includes Basic Health Units (BHU), and Rural Health Centres (RHC) forming the core of the primary healthcare centres. Secondary care including first and second referral facilities providing acute, ambulatory and inpatient care is provided through Tehsil Headquarter Hospitals (THQs), and District Headquarter Hospitals (DHQs) which are supported by Tertiary Care mostly annexed with teaching hospitals. Services are augmented through a range of public health programmes through healthcare delivery system and through population level interventions.

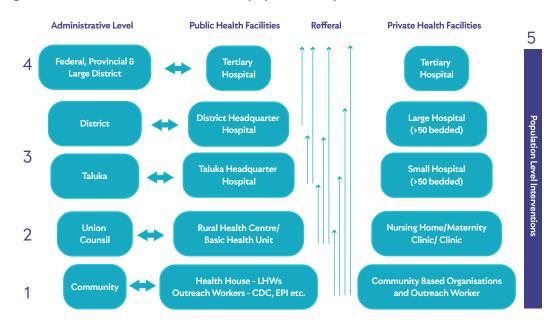


Figure: Public & Private Healthcare Delivery System in Khyber Pakhtunkhwa

The private healthcare system constitutes of for-profit and not-for-profit (NGOs and CBOs) and constitutes a diverse group of doctors, nurses, pharmacists, traditional healers, drug vendors, as well as laboratory technicians, shopkeepers and unqualified practitioners. The private healthcare delivery system includes clinics, maternity clinics, nursing homes, small hospitals (less than 100 bedded) and large hospitals (more than 100 bedded) and tertiary care from private teaching hospitals. Diagnostic facilities and the sale of drugs from pharmacies are also a part of this system. In some cases, the distinction between public and private sectors is not very clear as many public sector practitioners also practice privately.

Whereas, primary, promotive and preventive health services are largely offered by the public sector, the focus of private sector is generally on the curative care services, with bias towards urban areas.

A brief introduction of different types of District level healthcare delivery system is provided below:

Community based healthcare delivery system

At the household level, services are provided through community-based health providers including Lady Health Workers (LHWs), Community Midwives (CMWs) and workers for community-based organizations (e.g., for provision of HIV & AIDS preventive services). In addition, there are also outreach workers including Lady Health Supervisors, Vaccinators, Population Welfare Councillor, CDC/Environmental Technologist etc, and have been accounted for as PHC centre staff.

Lady Health Workers (LHWs)

Lady Health Worker (LHW) is a community-based worker and the LHWs Programme was launched nationwide in 1994. LHW is responsible to register households in her community of around 150-200 households (an average of 1,000-1,500 people) and offer primary, preventive, promotive and some curative care services. LHW is required to visit at least 7-10 households each day to ensure that all registered households are visited at least once every month. During household visit she provides services including health education, counselling, motivation and community organization. She promotes and offer family planning services, maternal and adolescent healthcare, child healthcare including immunization and nutrition services, treatment of common ailments etc.

The LHW's house is designated as a **Health House**, where she is expected to establish a 'kit corner' to provide counselling and treatment services to those visiting her for advice. The LHW's house may also serves as a vaccination post to vaccinate women and children in coordination with the area vaccinator. LHW is responsible to organize her community by forming health committee and women's groups. LHW submits her monthly report in the monthly 'continuing education' meeting at the health facility. She is replenished with medicines and supplies consumed during last month.

Community Midwives (CMWs)

Community Midwives (CMWs) were introduced through the National Maternal, New-born and Child Health (MNCH) Programme in 2006. CMW is responsible to provide individualized care to the pregnant women throughout the maternity cycle and the new-born and ensure skilled birth attendance for home deliveries or at work/ birthing station established by her. The catchment population for a CMW is around 5000. In some areas, PHC technician MCH (previously known as Lady Health Visitors – LHV), mostly based at PHC centre, also offer home-based delivery services. Considering rapidly increasing institutional deliveries across the country, the need for community midwives is less comparatively in large urbanized districts. Whereas in remote and socio-economically poor districts, this is among the few options to ensure skilled birth attendance.

Community based services to prevent HIV & AIDS

Community based services are also offered through workers of community-based organizations in HIV & AIDS high-risk populations to ensure provision of preventive services. These services are usually offered to injecting drug users, sex workers, bridging population etc.

In addition, community level services are also offered by the <u>out-reach workers</u> including Vaccinators, Health, Population Welfare Councillors, Environmental technicians, Lady health supervisors and other health facility staff. For some interventions, other volunteers also contribute to delivery of services e.g., polio campaign, deworming campaign, Vit A supplementation, etc. Nomenclature varies in different provinces. Activities related to out-reach workers have been accounted for mostly at the PHC centre level.

Primary healthcare centre level health system

There are different types of primary healthcare centre level facilities in rural areas commonly known as Basic Health Unit (BHU), BHU (24/7) and Rural Health Centre (RHC), while in urban areas, comparable types of PHC facilities are Dispensary, Medical/ MCH centre while in private sector different types of comparable PHC facilities are General Physician (GP) Clinic, Medical centre and Nursing/ maternity homes etc.

A brief explanation of three types of PHC centre facilities in public and private sector are as following:

Basic Health Unit/ Civil Dispensary/ General Practitioner Clinic

Dispensary is the oldest type of a primary healthcare facility mainly in urban areas. After Alma Ata, Basic Health Units (BHUs) were established country wide, mainly in rural areas, to work as the first formal point of contact to access primary healthcare services. Ideally, each Union Council or Ward (lowest administrative unit) should have one PHC centre usually serving a population of around 15,000 to 20,000. Usually, these health facilities offer basic primary healthcare services, which include provision of static and outreach services for maternal & childcare, immunization, family planning, management of diarrhoea, pneumonia, control of communicable diseases and management of common ailment along with health education activities. These facilities are also responsible for provision of management and logistic support to LHWs and other community-based service providers. These facilities offer services usually 8 hours/ 6 days a week.

24/7 BHU / MCH Centre / Medical Centre

With increasing population and to ensure 24/7 delivery services, the concept of 24/7 BHU emerged. In comparison to BHU, 24/7 BHU is envisaged to provide wider range of services including round the clock delivery services. 24/7 BHU is envisaged to serve a catchment population of 30,000 – 40,000. It is important to offer wide range of services, infrastructure, human resources, equipment and supplies should also be ensured at the facility. Khyber Pakhtunkhwa has recently decided to upgrade some BHUs to offer 24/7 services especially for delivery care. Already MCH centres and private clinics are offering such services round the clock.

Rural Health Centre / Health Centre/ Nursing Homes

Rural Health Centre (RHC) functions around the clock and serve a catchment area population of 40,000–60,000 or even more, providing a comprehensive range of primary health care services and basic indoor facilities. The services envisaged to be provided at RHC include health education services, general treatment services, Basic Emergency Obstetric & New-born Care (BEmONC) services, emergency services such as management of injuries, accident, selected surgical services such as stitching, abscess drainage, circumcision etc. and first aid services to stabilize the patient in emergency conditions and refer them to higher level of care in case of complications. RHCs also provide clinical, logistical and managerial support to the BHUs, LHWs, MCH Centres, and Dispensaries that fall within its geographical limits. RHC provides medico-legal, basic surgical, dental and ambulance services. Under the new policy the ambulance services will be handed over to the Rescue 1122. RHCs are equipped with laboratory and X-ray facilities and a 20 bedded inpatient facility. Around 5-8 BHUs are linked with the RHC for referral and other administrative purposes.

Equivalent to RHC, there are private sector Health Centre, Nursing or Maternity homes mostly in urban areas and sometimes offer wider range of services including specialized services.

First level hospital health system

First level hospital refers to the intermediate level of medical care that is provided by a specialist or facility upon referral from primary care and is designed to provide technical, therapeutic and diagnostic services. It requires more specialized knowledge, skills, and equipment than the primary care professional. Services are offered 24/7. Basic specialist consultation and hospital admissions fall into this category. The secondary level of care were previously named as District Head Quarter (DHQ) and THQ hospitals but the level of services to be provided by the hospitals varied from hospital to hospital. To ensure the access and equity of services the department conducted the exercise of standardization in year 2002 wherein all the hospitals were categorized into Category A, B, C, D.based on the population of the district and the number of beds of each type of hospital so that a ratio of 1 bed to 2500 population is achieved. The notification defined the specialities which are to be provided in each category as well as staffing for each category. It was also agreed that the upgradation of infrastructure as well as equipment will be done through ADP. The process of upgradation of infrastructure of hospital is being conducted since 2002 through the ADP and number of the hospitals has been standardized.

Bed Strength and Specialities across Category A, B, C and D secondary care hospitals

All the four categories of hospitals have both in-patient and outpatient services, in addition to emergency, diagnostic and other day care facilities. Category "A" secondary care hospital has the highest number of specialties and the number of inpatient beds. The number of specialties and the inpatient beds decreases across category "A" to category "D" hospitals. The bed strength and the available specialities by the four hospital categories are provided in the Table 1.

Table 1: Summary of the Criterion for Categorisation of Secondary Care Hospitals

		CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D
	SURGERY	40 beds	30 beds	20 beds	8 beds
	MEDICINE	40 beds	30 beds	20 beds	8 beds
	GYNAE/OBS	40 beds	20 beds	15 beds	10 beds
	PAEDIATRICS	40 beds	20 beds	10 beds	10 beds
	EYE	30 beds	20 beds	10 beds	0
	ENT	30 beds	20 beds	10 beds	0
	ORTHOPAEDICS	20 beds	10 beds	10 beds	0
	CARDIOLOGY	15 beds	10 beds	0	0
	PSYCHIATRY	15 beds	10 beds	0	0
	CHEST/TB	10 beds	10 beds	0	0
INPATIENT	DIALYSIS UNIT	6 U	4 U	0	0
BEDS	DENTISTRY UNIT	6 U	4 U	2 U	1 U
	PAEDS SURGERY	10 beds	0	0	0
	NEUROSURGERY	10 beds	0	0	0
	DERMATOLOGY	10 beds	0	0	0
	ACCIDENT AND EMERGENCY (Casualty)	10 beds	10 beds	5 beds	4 beds
	LABOR ROOM	10 beds	5 beds	5 beds	2
	ICU/CCU	10 beds	10 beds	5 beds	0
	NURSERY PEADS/ICU	10 beds	5 beds	0	0
	TOTAL BEDS	350 Beds + 6 Dialysis Units + 6 Dentistry Units	210 Beds + 6 Dialysis Units + 6 Dentistry Units	110 Beds + 2 Dentistry Units	42 Beds + 1 Dentistry Unit

Large private hospitals are considered to be equivalent to Category A and B hospitals while small private hospitals may be considered as equivalent to Category C and D hospitals.

Tertiary hospital (Public/ Private)

A tertiary referral hospital provides tertiary care, which is a level of health care obtained from specialists in a large hospital after referral from the providers of primary care and secondary care. Tertiary hospital that usually has a full complement of services including paediatrics, obstetrics, general medicine, gynaecology, various branches of surgery and psychiatry. Specialty hospital are dedicated to specific sub-specialty care (paediatric centres, oncology centres, psychiatric hospitals). Patients will often be referred from smaller hospitals to a tertiary hospital for major

operations, consultations with sub-specialists and when sophisticated intensive care facilities are required.

Tertiary hospital may also be attached with a Medical Teaching Institute. Tertiary hospitals are not present in all districts but in districts with large population and also serve the neighbouring districts.

Most of the tertiary hospitals in KP have been given autonomy under medical teaching institution bill, to ensure efficiency gain and improve quality of services. Such autonomy also helps in generating other financial resources which could be used to further improve the quality of services.

Population level

Federal and Provincial governments also carry out some interventions which benefit the whole population. Population-level health interventions are policies or programmes shift the distribution of health risk by addressing the underlying social, economic and environmental conditions. These interventions might be programs or policies designed and developed in the health sector, but may be in sectors elsewhere, such as media or education.

DISTRICT LEVEL ESSENTIAL PACKAGE OF HEALTH SFRVICES

(Community, PHC Centre and First Level Hospital)

UHC Benefit Package/ Essential Package of Health Services (EPHS) offers a futuristic vision in the health sector to set strategic direction and accordingly implement prioritized interventions to make progress on achieving Universal Health Coverage/ health-related Sustainable Development Goals.

Based on the evidence informed process outlined above, minimum of 98 interventions out of 218 recommended interventions by the DCP3/ 151 generic national EPHS were prioritized for immediate implementation by stakeholders to be included in the KP District level EPHS at the Community, PHC centre and First Level Hospital. Remaining interventions were identified as high priority to be implemented provided resources are available whereas 11 were identified to be implemented through special initiatives with additional support of national and/or provincial governments. Other interventions can also be offered once EPHS interventions are fully offered.

The immediate, high priority and special initiative interventions are categorized to four clusters (i: RMNCAH&N cluster; ii: Infectious diseases cluster; iii: non-communicable disease cluster; and iv: health services access cluster). However, for ease of understanding, some interventions have been merged or broken down further. After that these interventions were re-classified according to lifecycle approach into following 12 categories:

- 1. Reproductive health/ birth spacing
- 2. Antenatal care
- Delivery care
- 4. Post-natal care
- 5. New-born care
- 6. Nutrition

- 7. Child care
- 8. School age child care
- 9. Adolescent health
- 10. Infectious diseases
- 11. Non-communicable diseases
- 12. Health services access

First nine categories are part of RMNCH cluster. The description in the following section reflects the prioritized set of District level EPHS interventions:

EPHS at Community level

The package of services that are being proposed at the community level reflect the community needs, burden of disease, cost-effectiveness of interventions and the contextual factors to ensure delivery of efficient, effective and quality services at the doorstep. The health care workers, service providers and community-based organizations will provide the proposed services in the communities. Service providers include Lady Health Workers, Lady Health Visitor, Population Welfare Councillor and workers of Community-Based Organizations. These frontline workers also get backup support from the out-reach workers including CDC/Environmental Technicians, Vaccinators, Lady Health Supervisors and other health facility staff. The interventions among twelve categories are provided in the following box.

COMMUNITY LEVEL INTERVENTIONS

Reproductive Health/ Birth spacing

- Education and counselling on birth spacing during antenatal and post-natal care (LHW, CMW, LHV)
- Provision of condoms, hormonal pills and injectable contraceptives (LHW, CMW, LHV)
- Referral and linkages for IUCD insertion (LHW)
- Referral and linkages for surgical contraceptive methods (LHW)

Antenatal Care

- Counselling on providing thermal & kangaroo care to new-born (LHW, CMW, LHV)
- Counselling on breastfeeding and growth monitoring (LHW, CMW, LHV)
- Monthly monitoring of pregnant women using MCH card and referral to Skilled birth attendant (LHW)
- Nutrition counselling and provision of Iron and folic acid to pregnant women (LHW)
- Referral/ immunization for TT immunization (CBAs and Pregnant women) (LHW, CMW)
- Screening for hypertension during pregnancy and immediate referral (LHW, CMW. LHV)

Delivery Care

- Referral to skilled birth attendant for low risk labour and delivery (LHW)
- Identification of danger signs and referral to BEMONC or CEMONC facility considering complications (LHW, CMW, LHV)
- Low risk normal delivery (Only where CMW or LHV is available)

Post-Natal Care

- Use of PNC checklist for mother within 24 hours after delivery (LHW) +3 follow up visits for 40 days after delivery (LHW, CMW)
- Education and counselling on birth spacing during post-natal care and service provision/ referral (LHW, CMW)

New-born Care

- Use of PNC checklist for new-born within 24 hours after delivery (LHW) + care of new-born including care of cord (3 follow up visits) (LHW, CMW, LHV)
- Early initiation of breastfeeding (within ½ hour of birth) and initiation of growth monitoring (LHW, CMW, LHV)
- Ensuring thermal & kangaroo care to new-born (LHW)
- Ensure initiation of immunization for BCG and zero dose polio (LHW with support of area Vaccinator)

Nutrition

- Screening for malnutrition in children; growth monitoring, ensure provision of food supplements for moderately acute malnourished cases and refer severely acute malnourished cases to stabilization centre (LHW, PW councillor)
- Ensure provision of vitamin A (after National immunization days are stopped) and zinc supplementation (LHW, PW councillor, etc)
- Provision of micro-nutrients (iron and folic acid), ensure food supplementation to women/ adolescent girls (LHW)

Child care

- Community based integrated management of childhood illnesses (LHW); immediate referral for complications and danger signs and follow up visits (LHW, PW councillor)
- Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3, Pneumococcal 1,2,3, Rota 1,2, Measles 1,2) – Typhoid vaccine from 2022 (LHW, PW councillor with support of Vaccinator)
- Education on handwashing and safe disposal of children's stool (LHW, PW councillor)

School age Child Care

- Education of schoolchildren on oral health (LHW, PW councillor)
- Vision pre-screening and referral if required (LHW, PW councillor)
- School based HPV vaccination of girls (vaccinator, LHV) after 2022-23 and through special initiativeDrug administration against soil-transmitted helminthiasis (LHW, PW councillor, volunteer)
- Drug administration against soil-transmitted helminthiasis (LHW, PW councillor, volunteer)

Adolescent Health

- Education and counselling for prevention of sexually transmitted infection, screening and referral (LHW)
- Health education on Hepatis B and C and referral of suspected cases (LHW, PW councillor)
- Health education on STI and HIV (LHW, CBO worker)
- Systematic screening and routine contact tracing exposed to Tuberculosis (LHW, CBO worker)
- Referral of malaria suspect (LHW, PW councillor)
- Conduct larvicidal and water management (LHW & PW councillor with backup support from CDC/ Environmental technician)
- Identification and referral of suspected cases of Dengue, Influenza, Trachoma etc. (LHW, PW councillor)
- Identification, reporting and referral of notifiable diseases (LHW, PW councillor and CDC/ Environmental technician) - Conduct simulation exercises/ training

Non-Communicable Diseases

- Exercise based pulmonary rehabilitation of COPD (LHW)
- Screening for hypertension (LHW)

- Health education on CVD prevention (LHW, PW councillor)
- Health education on Diabetes (LHW, PW councillor)
- Self-managed treatment of migraine (LHW)
- Clap test for screening of congenital hearing loss among new-born and referral (LHW)
- WASH behaviour changes interventions (LHW, PW councillor with backup support from CDC/ Environmental technician)

Health Services Access

- Health education on dental care (LHW, PW councillor)
- Health education scabies, lice and skin infections (LHW, PW councillor)
- First aid, dressing and care of wounds and referral (LHW)
- Identification and screening of early childhood development issues and referral (LHW)
- Basic management of musculoskeletal injuries and disorders and referral (LHW)

EPHS at PHC centre level

The prioritized interventions are again based on the life-cycle approach which should be offered at the PHC centre. However, scope of interventions will vary considering different types of PHC centre. The following box reflect the essential services across different types of PHC centres.

PHC CENTRE LEVEL INTERVENTIONS				
			Yes / No	
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
	Reprodu	ctive Health/ Birth	Spacing	
1.	Education and counselling on birth spacing during antenatal and post-natal / post abortion care	Yes	Yes	Yes
2.	Provision of condoms, hormonal pills, emergency contraceptive pills and injectable contraceptives	Yes	Yes	Yes
3.	Insertion and removal of intrauterine device (IUD)	Yes	Yes (12/7)	Yes (24/7)
4.	Surgical contraceptive methods	Yes (Referral and Linkages)	Yes (Referral and Linkages)	Yes (Organize mini- lap camps and referral)
		Antenatal care		
5	Counselling on providing thermal & kangaroo care to new-born	Yes	Yes	Yes
6	Counselling on breastfeeding and growth monitoring	Yes	Yes	Yes
7	Monitoring of pregnant women using MCH card (at least 4-8 ANC visits)	Yes	Yes (12/7)	Yes (24/7)
8	Nutrition counselling and provision of Iron and folic acid to pregnant women	Yes	Yes	Yes
9	Immunization against tetanus (CBAs and Pregnant women)	Yes	Yes	Yes

PHC CENTRE LEVEL INTERVENTIONS				
			Yes / No	
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
10	Screening and care/ referral for hypertensive disorders in pregnancy	Yes	Yes (24/7 Care & referral)	Yes (24/7 Care & referral)
11	Diabetes care in pregnancy	Yes (Only screening and Referral)	Yes (Screening and Referral for diabetes care in pregnancy)	Yes (Screening and Referral for diabetes care in pregnancy)
Delivery Care				
12	Low risk Labour and Delivery	No (Only Referral)	Yes (24/7 services for low-risk labour & delivery and basic neonatal resuscitation (Availability of seven signal functions for BEMONC)	Yes (Services for low-risk labour / delivery and managing complications; Basic neonatal resuscitation (Availability of seven signal functions for BEMONC)
13	Identification and referral for complications and danger signs	Yes (Referral to 24/7 BEMONC or CEMONC facility)	Yes (24/7 Referral to CEmONC facility)	Yes (24/7 Referral to CEmONC facility)
14	Management of premature rupture of membranes, including administration of antibiotic	No	No	Yes
15	Management of miscarriage or post-abortion care	No	No	Yes
		Post-Natal Care		
16	Post-natal care services +3 follow up visits	Yes	Yes (12/7)	Yes (24/7)

PHC CENTRE LEVEL INTERVENTIONS						
			Yes / No			
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)		
17	Education and counselling on birth spacing during post-natal/post abortion care	Yes	Yes	Yes		
New-born Care						
18	New-born care including care of cord (follow up visits)	Yes	Yes	Yes		
19	Early initiation of breastfeeding (within ½ hour of birth) and initiation of growth monitoring	Yes	Yes	Yes		
20	Ensuring thermal & kangaroo care to new-born	Yes	Yes	Yes		
21	Initiation of immunization for BCG and zero dose polio	Yes	Yes	Yes		
		Nutrition				
23	Screening for malnutrition in children; growth monitoring, provision of food supplements for moderately acute malnourished cases and refer severely acute malnourished cases to stabilization centre	Yes	Yes (12/7)	Yes (24/7)		
24	Provision of vitamin A (after National immunization days are stopped) and zinc supplementation	Yes	Yes	Yes		
25	Provision of micro-nutrients (iron and folic acid) and food supplementation to women and adolescent girls	Yes	Yes	Yes		
		Child Care				
26	Integrated management of childhood illnesses; immediate referral for danger signs and follow up visits	Yes	Yes (12/7)	Yes (24/7)		

PHC CENTRE LEVEL INTERVENTIONS				
			Yes / No	
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
27	Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3, Pneumococcal 1,2,3, Rota 1,2, Measles 1,2)	Yes	Yes	Yes
28	Education on handwashing and safe disposal of children's stool	Yes	Yes	Yes
	Se	chool-age Child Care	e	
29	Education and counselling on oral health	Yes	Yes	Yes
30	Vision pre-screening and referral if required	Yes	Yes	Yes
31	Drug administration against soil-transmitted helminthiasis	Yes	Yes	Yes
		Adolescent Health		
32	Syndromic management of common sexual and reproductive tract infections	Yes	Yes	Yes
33	Psychological treatment of depression, anxiety and disruptive behaviour disorders among adolescent; referral if required	Yes	Yes	Yes
34	Post gender-based violence care including counselling and referral	No	No	Yes (from 2022)
		Infectious Diseases		
35	HIV testing, counselling and referral for ART	No	No	Yes
36	Hepatis B and C testing and referral	No (Only Health education on Hepatis B and C)	Yes	Yes

	PHC CEN	TRE LEVEL INTERVE	ENTIONS	
			Yes / No	
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
37	Partner notification and expedited treatment for STI and referral for HIV	No (Only Health education on STI and HIV)	Yes	Yes
38	Diagnosis and treatment of Tuberculosis (TB)	No (Only Referral of suspected cases)	Yes	Yes (Referral of MDR cases)
39	Screening of HIV in all individuals with a diagnosis of active TB	No	No	Yes
40	Screen for TB in all newly diagnosed PLHIV and close contacts	No	No	Yes
41	Malaria-suspect to be diagnosed with RDT and treatment for positive cases	Yes	Yes	Yes (Pre-referral treatment in severe and complicated cases)
42	Early detection and referral of Dengue and Trachoma cases	Yes	Yes	Yes
43	Identification, reporting and referral of notifiable diseases (Conduct simulation exercises/training)	Yes	Yes	Yes
	Non-	Communicable Dise	eases	
44	Low dose corticosteroid and bronchodilator for Asthma and selected COPD	Yes	Yes (12/7 with Nebulizer)	Yes (24/7 with Nebulizer)
45	Cardiovascular risk factor screening using non-lab-based tools and regular follow up	Yes	Yes (12/7)	Yes (24/7)
46	Provision of aspirin for suspected acute myocardial cases	Yes	Yes	Yes

	PHC CENTRE LEVEL INTERVENTIONS				
			Yes / No		
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
47	Screening of albumin urea kidney disease in diabetics	Yes	Yes	Yes	
48	Secondary prophylaxes with penicillin for Rheumatic fever	Yes	Yes	Yes	
49	Treatment of acute pharyngitis	Yes	Yes	Yes	
50	Self-managed treatment of migraine	Yes	Yes	Yes	
51	Support caregivers of patients with dementia	Yes	Yes	Yes	
52	Management of anxiety and depression disorders	Yes	Yes	Yes	
53	Calcium and Vit D supplementation for prevention of osteoporosis in high-risk individuals	Yes	Yes	Yes	
54	Screening of hearing loss using otoscope and basic management/ referral	Yes	Yes	Yes	
55	WASH behaviour changes interventions	Yes	Yes	Yes	
	H	ealth Services Acces	ss		
56	Dental Care	Yes (Dental pain and infection management)	Yes (Basic Dental care)	Yes (Treatment of caries, drainage of dental abscess, dental extraction)	
57	Drainage of superficial abscess (Treatment of scabies, lice and skin infections)	Yes	Yes (12/7)	Yes (24/7)	
58	Management of non-displaced fracture and referral	No	Yes (24/7)	Yes (24/7)	
59	Circumcision	No	Yes	Yes	

	PHC CENTRE LEVEL INTERVENTIONS				
			Yes / No		
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
60	Suturing of small laceration	Yes	Yes (24/7)	Yes (24/7)	
61	Identification and screening of early childhood development issues	Yes	Yes	Yes	
62	Basic management of musculoskeletal injuries and disorders	Yes	Yes	Yes	
63	Laboratory Services	Yes (Basic and rapid diagnostic lab services)	Yes (Essential PHC lab services including radiology)	Yes (RHC level lab services + radiology)	

The availability of laboratory and imaging services that are in compliance with the envisioned EPHS intervention package, is a key for effective provision of the EPHS interventions and reaching diagnosis prior to initiating treatment. The following table presents the laboratory tests and imaging services across the PHC health facilities.

	PHC CENTRE LEVEL LABORATORY & DIAGNOSTIC INTERVENTIONS					
			Yes / No			
		8/6 BHU (Rural)	24/7 BHU (Rural)	24/7 RHC (Rural)		
Sr. No.	Intervention	Dispensary (Urban)	Medical Centre (Urban)	Health Centre (Urban)		
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)		
1	Haemoglobin & Blood Complete Examination	Yes	Yes	Yes		
2	Blood Glucose Testing	Yes	Yes	Yes		
3	Lipid Profile	No	No	Yes		
4	Liver Function Tests	No	Yes	Yes		
5	Serum Uric Acid	No	Yes/No	Yes		
6	Renal function Test (Such as Serum Urea & Creatinine)	No	Yes	Yes		
7	Urine Chemistry (Qualitative and Quantitative Testing)	Yes (Only Qualitative)	Yes	Yes		
8	Onsite Malaria Testing	No	Yes	Yes		
9	Malaria Rapid Diagnostic Test (RDT)	Yes	Yes	Yes		
10	Gram Staining at facility	Yes / No	Yes	Yes		
11	Stool Microscopy at Facility	Yes / No	Yes	Yes		
12	Onsite Tuberculosis Testing	No	Yes	Yes		
13	X-Ray Services	No	Yes	Yes		
14	ECG Services	No	Yes	Yes		
15	Ultrasound	No	Yes	Yes		

EPHS at First Level Hospital

The prioritized interventions are/ should be offered at the FLH. However, scope of interventions will vary considering different types of FLH (Tehsil or District) in public and private sector. The following box reflect the essential services across different types of FLH.

FIRST LEVEL HOSPITAL INTERVENTIONS			
		Yes	/ No
Sr. No.	Intervention	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital
	Reproductive Health/ Birth Spacin	ıg	
1	Early detection and referral / treatment of early-stage cervical cancer	Yes	Yes
2	Insertion and removal of long-lasting contraceptives	Yes	Yes
3	Tubal ligations	No	Yes
4	Vasectomy	No	Yes
	Antenatal care		
5	Management of eclampsia with magnesium sulphate, including initial stabilization at health centres	Yes	Yes
6	Screening and management of diabetes in pregnancy (gestational diabetes or pre-existing type II diabetes)	Yes	Yes
	Delivery care		
7	Surgical termination of pregnancy by maternal vacuum aspiration and dilatation & curettage	Yes	Yes
8	Management of labour and delivery in high-risk women, including operative delivery (CEmONC)	No	Yes
9	Management of maternal sepsis, including early detection at Health centre	No	Yes
	Postnatal care		
	(Follow up visit of complicated delivery cases)	Yes	Yes
	New-born care	T	
10	Management of Neonatal sepsis, pneumonia and meningitis using injectable and oral antibiotics	No	Yes
11	Management of preterm premature rupture of membranes, including administration of antibiotics	Yes	Yes

FIRST LEVEL HOSPITAL INTERVENTIONS			
		Yes	/ No
Sr. No.	Intervention	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital
12	Management of new-born complications infections, meningitis, septicaemia, pneumonia and other very serious infections requiring continuous supportive care (such as IV fluids and oxygen)	No	Yes
13	Full supportive care for preterm new-born	Yes	Yes
14	Jaundice Management with Phototherapy	Yes	Yes
	Nutrition		
	(Stabilization centres only in food-insecure districts)	-	Yes
	Child care		
15	Full supportive care for severe childhood infections with danger signs	Yes	Yes
	Infectious diseases		
16	For individuals testing positive for hepatitis B and C, assessment of treatment eligibility by trained providers followed by initiation and monitoring of ART when indicated	No	Yes
17	Referral of cases of treatment failure for drug susceptibility testing; enrolment of those with MDR-TB for treatment per WHO guidelines	Yes	Yes
18	Evaluation and management of fever in clinically unstable individuals using WHO IMAI guidelines, including empiric parenteral antimicrobials and antimalarial and resuscitative measures for septic shock	No	Yes
	Non-communicable diseases		
19	Management of acute coronary exacerbations of asthma and COPD using systemic steroids, inhaled beta-agonists and if indicated oral antibiotics and oxygen therapy	Yes	Yes
20	Management of acute coronary syndromes	No	Yes
21	Medical management of acute heart failure	No	Yes
22	Early childhood development rehabilitation interventions, including motor, sensory, and language stimulation	No	Yes
23	Management of bowel obstruction	No	Yes

	FIRST LEVEL HOSPITAL INTERVENTIONS			
		Yes	/ No	
Sr. No.	Intervention	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital	
24	Management of intoxication/ poisoning syndromes using widely available agents e.g., charcoal, naloxone, bicarbonate, antivenom	No	Yes	
	Health services access			
25	Appendectomy	Yes	Yes	
26	Colostomy (Adult and Paediatrics) (Refer to tertiary hospital)	No	Yes	
27	Escharotomy or fasciotomy (Refer to tertiary hospital)	No	Yes	
28	Fracture reduction & placement of external fixator and use of traction for fractures	Yes	Yes	
29	Hysterectomy for uterine rupture or intractable postpartum haemorrhage	No	Yes	
30	Irrigation and debridement of open fractures (Refer to tertiary hospital)	No	Yes	
31	Management of septic arthritis	No	Yes	
32	Placement of external fixation and use of traction for fractures	No	Yes	
33	Relief of urinary obstruction by catheterization for fractures	Yes	Yes	
34	Removal of gallbladder, including emergency surgery	No	Yes	
35	Repair of perforations (for example perforated peptic ulcer, typhoid ileal perforation)	No	Yes	
36	Tube thoracostomy	Yes	Yes	
37	Trauma laparotomy	No	Yes	
38	Trauma related amputations	Yes	Yes	
39	Compression therapy for amputations, burns, and vascular or lymphatic disorders	Yes	Yes	
40	Cataract extraction and insertion of intraocular lens	No	Yes	

The availability of laboratory and imaging services that are in compliance with the envisioned EPHS intervention package, is a key for effective provision of the EPHS interventions and reaching diagnosis prior to initiating treatment. The following table presents the laboratory tests and imaging services across the FLH care facilities.

FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes /	No
Sr. No.	Laboratory / Diagnostic Tests	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital
1	Blood CP	Yes	Yes
2	ESR	Yes	Yes
3	Blood Culture & Sensitivity	No	Yes
4	C-Reactive Protein	No	Yes
5	Blood Grouping & Cross Matching	Yes	Yes
6	Blood Smear	No	Yes
7	Random and Fasting blood glucose	Yes	Yes
8	Serum Electrolytes (Serum Potassium, sodium, Serum Magnesium)	Yes	Yes
9	Serum Amylase, Lipase	No	Yes
10	Creatinine Phosphokinase, Serum Lactate	No	Yes
11	Serum Bilirubin	Yes	Yes
12	Prothrombin time test, APTT, INR	Yes	Yes
13	Blood Urea and Nitrogen	Yes	Yes
14	Hepatitis B & C test	Yes	Yes
15	Microscopy for malarial parasite	Yes	Yes
16	Pregnancy Test	Yes	Yes
17	Beta HCG	No	Yes
18	Arterial Blood Gases	No	Yes
19	LFTs	Yes	Yes
20	RFTs	Yes	Yes
21	Glucose-6-phosphate dehydrogenase (G6PD)	No	Yes
22	Coomb's test	Yes	Yes
23	Cardiac Troponin - T test	No	Yes
24	Microscopy of Cerebral Spinal Fluid	Yes	Yes
25	HIV Testing	Yes	Yes
26	Urine Analysis	No	Yes
27	Urine Culture & Microscopy test	Yes	Yes

	FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes / No		
Sr. No.	Laboratory / Diagnostic Tests	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital	
28	Urine Myoglobin	No	Yes	
29	Spot Urinary protein test	Yes	Yes	
30	High vaginal swab	No	Yes	
31	Semen analysis (sperm count)	Yes	Yes	
32	Lumbar Puncture	Yes	Yes	
33	Cytology (Pap smear or LBC) and Visual Inspection with Acetic acid (VIA)	No	Yes	
34	Molecular HPV testing	Yes	Yes	
35	Speculum, Vaginal & Rectal examination	No	Yes	
36	Intravenous pyelogram (IVP)	No	Yes	
37	Staining of smears for Ziehl-Neelsen or LED fluorescence microscopy	Yes	Yes	
38	APRI (AST-to-platelet ratio index)	No	Yes	
39	Liver Biopsy	No	Yes	
40	HBV & HCV Serological testing	Yes	Yes	
41	Nucleic Acid testing for HBV & HCV RNA	No	Yes	
42	line-probe assays (LPA) for direct detection of resistance mutations in acid-fast bacilli (AFB) smear-positive processed sputum samples	No	Yes	
43	Xpert MTB/RIF for use as the initial diagnostic test in individuals suspected of having MDR-TB	No	Yes	
44	Phenotypic DST (conventional DST)Genotypic DST	No	Yes	
45	Gastric Lavage	Yes	Yes	
46	Pulse oximetry	Yes	Yes	
47	Ultra sound	Yes	Yes	
48	Chest X ray	Yes	Yes	
49	ECG	Yes	Yes	
50	Echo	No	Yes	
51	CT Scan	No	Yes	

	FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes /	No	
Sr. No.	Laboratory / Diagnostic Tests	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital	
52	CT scan with contrast	No	Yes	
53	X-ray Abdomen erect	Yes	Yes	
54	Radiograph of Limbs	Yes	Yes	
55	Joint Fluid Aspirate	No	Yes	
56	Fluid aspitrate gram stain and culture	No	Yes	
57	Abdominal radiograph – erect and supine	Yes	Yes	
58	Ambulatory Xray (Portable)	Yes	Yes	
59	Ultrasound (to assess gestation age/IUGR) if needed	Yes	Yes	
60	Measurement of the compartment pressure (if Tonometer or Doppler Ultrasound available)	No	Yes	
61	Pelvic ultrasound (in case of ruptured uterus)	Yes	Yes	
62	Peri-apical radiograph	Yes	Yes	
63	Orthopantomogram	No	Yes	
64	Anti-cyclic citrullinated peptide (anti-CCP)	No	Yes	
65	Antinuclear antibody (ANA)	No	Yes	
66	Rheumatoid factor (RF)	No	Yes	
67	Uric acid	Yes	Yes	
68	Electrophoresis	No	Yes	
69	Blood test for sickle cell disease	No	Yes	
70	DNA testing (thalassemia specific)	No	Yes	
71	Thalassemia Test	No	Yes	
72	(Serum iron or Serum ferritin) (thalassemia			
73	specific)	No	Yes	
74	X-ray with a contrast material (barium X-ray)	No	Yes	
75	Dynamic swallowing study	No	Yes	
76	Fibreoptic endoscopic swallowing evaluation	No	Yes	
77	Manometry	No	Yes	
78	CD4 Testing	No	Yes	

FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes / No	
Sr. No.	Laboratory / Diagnostic Tests	Category C and D hospital / Small Private Hospital	Category A and B hospital / Large Private Hospital
79	Clinical chemistry panels (Automated analyser)	No	Yes
80	RPR test for Syphilis	No	Yes
81	FNAC	No	Yes
82	Tissue Biopsy	No	Yes
83	H & E staining	Cat C = No;	
84	Cat D=No	Yes	

Note: Blue ones are essential for intervention.

IMPLEMENTATION ARRANGEMENT

Essential Infrastructure for Community, PHC Centre and FLH Interventions

Following the finalisation of the package, protocols in the government were reviewed. The investment required in each type of facility was estimated to ensure the package is delivered at sufficient quality. Investment in infrastructure is primarily relevant for the PHC centre and FLH level interventions.

At community level, LHW is also envisaged to establish a kit corner in her house-declared as health house. The space is used to store medicines and supplies and give counselling or treat minor illnesses to those patients/ clients visiting health house. This place should also display relevant protocols and posters. LHW should be provided with the necessary equipment and MIS tools. The health house may also serve as a vaccination post.

For CMW, it is proposed that a room in her community will serve as her work station, which is a place where pregnant mothers will contact for consultation, examination and delivery. CMW conducts safe delivery either at the CMW work station or at the woman's home and give women to choose the place of delivery. Privacy and hygiene practices should be ensured with availability of essential equipment, kit and furniture etc.

With regards to the PHC centre, the following guidelines should preferably be followed especially in the public sector.

- The suggested land area for a BHU / BHU Plus is 6-10 kanal, while for a RHC 20 kanal land is required to ensure provision of all essential in-patient and outpatient services. Estimated construction cost of the building currently ranges from Rs.3,200 to 3,500 per square foot.
- In a RHC, 20 bedded indoor facility is recommended i.e. 10 bedded ward for male patients and 10 bedded ward for female patients. At the BHU Plus, there should be at least two bedded facility for institutional delivery.
- While choosing the location for a health facility, it should be ensured that the site has metal road access, electricity supply, adequate water supply, gas supply and communication lines for telephone/ mobile phone. The building should be built in a manner to ensure adequate sunlight and cross ventilation and as per government rules.
- The facility compound should have a boundary wall with gate and a facility sign board. A board with listed services, opening times and emergency contacts during closing times should be displayed, adjacent to the main gate so that it is easily visible to people. The text should be in an understandable format and in local and national language.

- The health facility area should have a rubbish pit for disposal of refuse and medical waste. The surroundings of the health facilities should be kept clean with no reservoirs of stagnant/unclean water, which could serve as vector breeding sites.
- The entrance of the building should have a ramp to facilitate physically challenged patients on wheel chairs or stretchers. Wheel chairs & stretchers should be available near to the main gate to transfer the patient in minimum time to emergency or OT.
- The entrance of the health facility building should have adequate light and ventilation with space for registration and record room, drug dispensing room, and waiting area for patients. The waiting area should have adequate seating arrangements, functional fans/AC and provide protection from extremes of weather. Health education material should be displaced in waiting areas.
- The waiting area should have a list of all fees in local and national languages and a complaint/ suggestion box which patients can use to provide feedback on the services.
- Clean drinking water should be available in the facility. Preferably piped water with water storage facility should be available within the facility.
- Separate functional toilets for male and female staff and clients/patients/attendants should be available, while ensuring cleanliness.
- Privacy of patient should be ensured with availability of adequate numbers of functional curtains/screens in the examination room.
- A kitchen should be available for inpatients at RHCs. Cooking should be strictly limited to the kitchen. However, the option of contracting out the food services may also be considered.
- The labour room at the 24/7 BHU and RHCs should have an attached toilet, drinking water facility, and a designated space for new-born care. Privacy should be ensured for patients.
- At the RHC, the Operation theatre area should have a changing room, sterilization area operating
 area and washing area. Separate storage facility for sterile and unsterile equipment/ instruments
 should be available within the operation theatre.
- Dressing room/ procedure room/ injection room should be well equipped with all the emergency drugs and instruments in all PHC facilities.
- Laboratory should have sufficient space with work stations and separate area for collection and screening of samples should be available. The lab should have marble/stone table top for platform and wash basins.
- Separate area for storage of sterile and common linen and other materials/ drugs/ consumables.
 The area should be well-lit and ventilated and should be rodent/pest free.
- Besides the above, the health facility should have
 - Dispensing cum store area
 - Vaccine storage and immunisation area

- BCC and family planning counsel area
- Office room
- Utility room for dirty linen and used items
- Laundry: RHC should have its own arrangement for safe washing of bed linen, blankets, sheets
 etc. used in different areas. The BHUs and BHUs Plus are proposed to send their laundry to the
 RHCs as per need or there should be a contractual arrangement for linin washing.
- Decent Residential Accommodation with all the amenities, like 24-hrs water supply, electricity, etc. should be available for medical officers, paramedical staff, support staff, and for peon/ chowkidar.

The infra structure and basic amenities, recommended at PHC centre facilities are as following:

	PHC CENTRE LEVEL LABORATORY & DIAGNOSTIC INTERVENTIONS				
		Yes / No			
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
			centre (Pvt)		
1	Land required	5-6 Kanal (BHU)	5-6 Kanal (BHU Plus)	11-12 Kanal (RHC)	
2	Central registration point/ reception (with computerized/ paper records)	Yes	Yes	Yes	
3	Medical officer In-charge room with washroom	No	No	Yes	
4	Medical officer room with washroom	Yes	Yes	Yes	
5	WMO room with washroom	No	Yes	Yes	
6	Examination & procedure room	No	Yes	Yes (MO and minor procedure room)	
7	LHV room with washroom	Yes	Yes	Yes	
8	Labour room	No	Yes	Yes	

	PHC CENTRE LEVEL LABORATORY & DIAGNOSTIC INTERVENTIONS					
		Yes / No				
	Intervention	8/6 BHU (Rural)	24/7 BHU (Rural)	24/7 RHC (Rural)		
Sr. No.		Dispensary (Urban) GP Clinic (Pvt)	Medical Centre (Urban) Medical centre (Pvt)	Health Centre (Urban) Nursing Home (Pvt)		
9	Operation Theatre (OT) with scrub/ washing area, changing room, sterilization room and generator room	Yes	Yes	Yes		
10	Indoor Wards with nursing station and washrooms	No	No (Two beds maternity room)	Yes (20 beds, 10 each for males and females)		
11	Dental room with washroom	No	No	Yes		
12	Waiting areas with washrooms	No	Yes	Yes		
13	Dispensary	Yes	Yes	Yes (Dispensary and dressing area)		
14	EPI room with regular & alternate electricity system	Yes	Yes	Yes		
15	Health education / Training room/ ORT corner	Yes	Yes	Yes		
16	Laboratory	Yes (RDTs)	Yes	Yes		
17	X-ray room with darkroom facility	No	Yes	Yes (Radiology room with darkroom)		
18	Storeroom	Yes	Yes	Yes		
19	Ramps for disabled	Yes	Yes	Yes		
20	Staff kitchen	No	No	Yes		
21	Mortuary and postpartum room	No	No	Yes		

	PHC CENTRE LEVEL LABORATORY & DIAGNOSTIC INTERVENTIONS				
		Yes / No			
		8/6 BHU (Rural)	24/7 BHU (Rural)	24/7 RHC (Rural)	
Sr. No.	Intervention	Dispensary (Urban) GP Clinic (Pvt)	Medical Centre (Urban) Medical centre (Pvt)	Health Centre (Urban) Nursing Home (Pvt)	
22	Garage	No	Yes	Yes	
23	Boundary wall	Yes	Yes	Yes	
24	Residences for staff	Yes	Yes	Yes	
25	Waste disposal area with proper infection control measures / protocols	Yes	Yes	Yes	
26	Water supply & storage facility	Yes	Yes	Yes	
27	Green area with plantation	Yes	Yes	Yes	
28	Carpeted road access	Yes	Yes	Yes	
29	Electricity, Water and Gas Facility	Yes	Yes	Yes	
30	Telephone and Internet	Yes	Yes	Yes	
31	Facility Sign board	Yes	Yes	Yes	
32	Board with listed services, opening times and emergency contacts	Yes	Yes	Yes	
33	Backup electric supply system	yes	Yes	Yes	

With regards to FLH, following guidelines should preferably be followed especially in the public sector.

The suggested land area for Category A, B, C and D level hospitals is as following to ensure provision of all essential in-patient and outpatient services:

- a. Category-A Hospital (350-bed capacity) 70 Kanals
- b. Category B (210 beds)- 60 Kanals (Can be adjusted as per design and scope of work)

- c. C (110 beds)-40-50 Kanals and (Can be adjusted as per design and scope of work)
- d. D Hospitals (40 beds capacity) 20-30 Kanals

These areas are for the hospital buildings only, excluding the area needed for staff housing.

- The site must be large enough for all the planned functional requirements to be met and for any
 expansion envisioned within the coming ten years.
- While choosing the location for a health facility, it should be ensured that the site has metal road access, electricity supply, adequate water supply, storm-water disposal gas supply and communication lines for telephone/ mobile phone.
- The building should be built in a manner to ensure adequate sunlight and cross ventilation and as per government rules.
- In areas where such utilities are not available, substitutes must be found, such as a deep well for water, generators for electricity and radio communication for telephone.
- It should be in an area free of pollution of any kind, including air, noise, water and land pollution.
- The hospital compound should have a boundary wall with gate and a facility sign board. A board with listed services, opening times and emergency contacts during closing times should be displayed, adjacent to the main gate so that it is easily visible to people. The text should be in an understandable format and in local and national language. Large DHQ hospital should have incinerator.
- The hospital area should have a rubbish pit for disposal of refuse and medical waste. The surroundings of the health facilities should be kept clean with no reservoirs of stagnant/unclean water, which could serve as vector breeding sites.
- The entrance of the building should have a ramp to facilitate physically challenged patients on wheel chairs or stretchers.
- The entrance of the hospital building should have adequate light and ventilation with space for registration and record room, drug dispensing room, and waiting area for patients.
- The waiting area should have adequate seating arrangements, functional fans/AC and provide protection from extremes of weather. Health education material should be displaced in waiting areas.
- The waiting area should have a list of all fees in local and national languages and a complaint/ suggestion box which patients can use to provide feedback on the services.
- Clean drinking water should be available in the facility. Preferably piped water with water storage facility should be available within the facility.
- Separate functional toilets for male and female staff and clients/patients/attendants should be available, while ensuring cleanliness.

- Privacy of patient should be ensured with availability of adequate numbers of functional curtains/screens in the examination room, along with attendant of same gender.
- A kitchen should be available for Inpatients at THQs/DHQs. Cooking should be strictly limited to the kitchen. However, the option of contracting out the food services may also be considered.
- The labour room at the THQs and DHQs should have an attached toilet, drinking water facility, and a designated space for new-born care with required equipment like suction machine. Privacy should be ensured for patients.
- At the FLH facilities, the operation theatre area should have a changing room, sterilization area, operating area, and washing area. Separate storage facility for sterile and unsterile equipment. Autoclave machine/instruments should be available within the operation theatre.
- Dressing room/ procedure room/ injection room should be well equipped with all the emergency drugs and instruments in all FLH facilities.

Besides the above, the health facility should have

- Dispensing cum store area
- Vaccine storage and immunization area
- BCC and family planning counsel area
- Utility room for dirty linen and used items
- Laboratory should have sufficient space with work stations and separate area for collection and screening should be available. The lab should have marble/stone table top for platform and wash basins.
- Separate area for storage of sterile and common linen and other materials/ drugs/ consumables.
 The area should be well-lit and ventilated and should be rodent/pest free.
- All FLH facilities should have its own arrangement for safe washing of bed linen, blankets, sheets etc. used in different areas. There should be a contractual arrangement for linen washing.
- Decent residential accommodation with all the amenities, like 24 hours water supply, electricity, etc. should be available for medical officers, paramedical staff, support staff and for peon/ chowkidar.

The infrastructure and basic amenities recommended at FLH center facilities are as follows:

	FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes / No		
Sr. No.	Laboratory / Diagnostic Tests	Category C and D hospital / Small Private	Category A and B hospital / Large Private Hospital	
1	Central registration point/reception with computerized and paper records	Yes	Yes	
2	Central registration point Emergency room	Yes	Yes	
3	Medical Officer In-charge room with washroom	Yes	Yes	
4	Medical Officers rooms with washroom	Yes	Yes	
5	WMO rooms with washroom	Yes	Yes	
6	Admin Block with offices for management staff, Finance and accounts, procurements and supply chain.	No	Yes	
7		Yes	Yes	
8	Offices for specialists/ senior medical staff	Yes	Yes	
9	Examination & Procedure room	Yes	Yes	
10	LHV / Population welfare rooms with washroom	Yes	Yes	
11	Medical and non-medical stores in the ward	Yes	Yes	
12	Labourroom	Yes	Yes	
13	Operation Theatre (OT) with scrub / washing area, changing room, sterilization room and generator room	Yes	Yes	
14	ICU/CCU	No	Yes	
15	Preoperative room	Yes	Yes	
16	Recovery Room	Yes	Yes	
17	Indoor wards with nursing station and washrooms	Yes	Yes	
18	Dental room with washroom	Yes	Yes	
19	Waiting areas with washrooms	Yes	Yes	
20	A big room for any meeting/ Academic activity	Yes	Yes	
21	EPI room with regular & alternate electricity system	Yes	Yes	
22	Health education / Training room / ORT corner	Yes	Yes	
23	Laboratory	Yes	Yes	
24	X ray room with darkroom facility	Yes	Yes	
25	Storeroom	Yes	Yes	

	FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes /	No	
Sr. No.	Laboratory / Diagnostic Tests	Category C and D hospital / Small Private	Category A and B hospital / Large Private Hospital	
26	Ramps for disabled	Yes	Yes	
27	Kitchen	Yes	Yes	
28	Mortuary and postpartum room	Yes	Yes	
29	Garage	Yes	Yes	
30	Boundary Wall	Yes	Yes	
31	Residences for staff	Yes	Yes	
32	Waste disposal area with proper infection control measures/protocol Yes		Yes	
33	Water supply & Storage facility	Yes	Yes	
34	Green area with plantation	Yes	Yes	
35	External & Internal Road access	Yes	Yes	
36	Electricity, Water, and Gas facility	Yes	Yes	
37	Telephone and Internet	Yes	Yes	
38	Facility sign board	Yes	Yes	
39	Board with listed services, opening times and emergency contacts	Yes	Yes	
40	Fuel operated generator	Yes	Yes	
41	Pharmacy	Yes	Yes	
42	Main stores for medicines	Yes	Yes	
43	Main stores for non-medical items	Yes	Yes	
44	Public washroom	Yes Yes		
45	Drinking Water dispensers	Yes	Yes	
	Parking area (with shades) for staff and visitors	Yes	Yes	

Essential Human Resources for Health

Human Resources for Health (HRH) plays a central role in delivery of essential health services and for achieving UHC. HRH is a critical factor in long term planning, implementation and sustaining of health care services. The human resource for the PHC centre is inevitable in view the range of essential health services/ interventions which are prioritized.

At the community level, LHW, fulfilling the criteria, is required to cover 1,000-1,500 population. To ascertain the total number of required LHWs, a standard of 100 percent coverage of the rural areas and 30 percent coverage for urban areas, focussing on the urban slums/densely populated communities is recommended. A CMW should be deployed to cover a population of minimum 5,000 people and this cadre is not recommended for urban and socio-economically better off areas as institutions are usually available. Each union council should have at least two vaccinators to provide vaccination services in the PHC centre and community. Also, the CDC/Environmental technician and Population Welfare (PW) councillors are recommended as outreach workers. For some of the interventions such as HIV, the Community Based Organisations (CBOs) staff working in the community where high-risk population is concentrated. Linkages with the First Level/ Tertiary hospital staff may be ensured through digital health technology.

The essential human resource across the PHC centre level is reflected in the following table.

	PHC CENTRE LEVEL LABORATORY & DIAGNOSTIC INTERVENTIONS				
		Yes / No			
Sr. No.	HRH	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
1	Medical Officer In charge	1	1	1 (PMO)	
2	Gynaecologist/ Obstetrician (optional)	0	PG students on rotation	PG students on rotation	
3	Medical Specialist (optional)	0	0	Same as above	
4	District/ General Surgeon (optional)	0	0	Same as above	
5	Paediatrician, Eye and ENT specialist (optional)	0	0	Same as above	
6	Male Medical Officer	0	0	3	
7	Women Medical Officer	0	2	3	

	PHC CENTRE LEVEL LABORATO	RY & DIAGNOS	TIC INTERVENTION	ONS
			Yes / No	
		8/6 BHU (Rural)	24/7 BHU (Rural)	24/7 RHC (Rural) Health Centre
Sr. No.	HRH	Dispensary (Urban) GP Clinic	Medical Centre (Urban)	(Urban) Nursing Home (Pvt)
		(Pvt)	Medical centre (Pvt)	,
8	Dental Surgeon	0	0	1
9	Staff Nurse	0	0	6
10	PHC Technician (MCH)/ LHV	1	3	3
11	PHC Technician (MP)/EPI	2	2	2
12	PHC Technician (Multi-Purpose)	2	2	4
13	Clinical Technician (Dental)	0	0	2
14	Mortuary attendant	0	0	1
15	Clinical Technician (Surgical)	0	0	3
16	Clinical Technician (Pathology)	0	0	3
17	Clinical Technician (Radiology)	0	0	3
18	Data Entry Operator	1	1	1
19	Junior Clerk	0	0	1
20	Lady Health Supervisor & Driver	As per LHWP standards	No	Yes
21	Storekeeper	0	0	1
22	Ward Orderly/Attendant	0	0	11

	PHC CENTRE LEVEL LABORATORY & DIAGNOSTIC INTERVENTIONS				
		Yes / No			
Sr. No.	HRH	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
23	Ward Attendant (Dai/Aya)	1	3	5	
24	Washer for Laundry*	0	0	1	
25	Naib Qasid	1	1	1	
26	Mali	0	0	1	
27	Chowkidar	2	2	3	
28	Sanitary worker*	1	2	3	
	Total	12	19	64	

^{*} Cooking, Washing and Sanitary services may be contracted out.

⁻ Staff mentioned in Blue font is critical to ensure essential interventions

The essential human resource for health across the FLH is reflected in the following table.

	STAFFING STANDARDS FOR FLH HOSPITALS				
S. No.	Staff Category	Category A Hospitals	Category B Hospitals	Category C Hospitals	Category D Hospitals
		MANAGE	MET STAFF		
1	Medical Superintendent	1	1	1	1
3	Deputy Medical Superintendent	3	3	2	1
	Total	4	4	3	2
		SPEC	ALIST		I
1	Physician	4	2	1	1
2	Surgeon	4	2	1	1
3	Gynaecologist	4	2	1	1
4	Paediatrician	4	2	1	1
5	Anaesthetist	4	3	2	1
6	Ophthalmologist	2	2	1	0
7	ENT Specialist	2	2	1	0
8	Pathologist	2	1	1	0
9	Radiologist	2	2	1	1
10	Orthopaedic Surgeon	2	2	1	0
11	Trauma Surgeon	1	0	0	0
12	Forensic Expert	1	0	0	0
13	Neurosurgeon	1	1	0	0
14	Psychiatrist	2	1	1	0
15	Pulmonologist	1	1	0	0
16	Dermatologist	2	1	0	0
17	Gastroenterologist	1	1	0	0
18	Urologist	1	1	0	0
19	Paediatrics Surgeon	1	0	0	0
20	Dentistry Specialist	2	2	0	0
21	Cardiologist	2	1	0	0
22	Nephrologist	1	1	0	0

	STAFFING STANDARDS FOR FLH HOSPITALS				
S. No.	Staff Category	Category A Hospitals	Category B Hospitals	Category C Hospitals	Category D Hospitals
23	Emergency Specialist	1	1	0	0
24	Blood Transfusion Officer	1	1	0	0
25	Neurologist	1	1	0	0
	Total	49	33	12	6
		MEDICA	AL STAFF		
1	General Cadre Medical Officers	128 with at least 12 WMOs. (4 Chief Medical officers, 25 principal medical officer,46 senior medical officers,53 medical officers	82 with at least 8 WMOs. (4 Chief Medical officers, 18 principal medical officer,20 senior medical officers, 40 medical officers	44 with at least 4 WMOs. (2 Chief Medical officers, 8 principal medical officer,16 senior medical officers,18 medical officers	16 with at least 3 WMOs. (3 principal medical officer,6 senior medical officers, 7 medical officers
2	Dental surgeons	6	6	2	1
2	Dental surgeons Total	6	6 88	2	1 17
2		134			
1		134	88		

	STAFFING STANDARDS FOR FLH HOSPITALS				
S. No.	Staff Category	Category A Hospitals	Category B Hospitals	Category C Hospitals	Category D Hospitals
3	Nursing Superintendent	1	1	1	1
4	Deputy Chief Nursing Superintendent	1	1	0	0
5	Chief Nursing Superintendent	1	0	0	0
	Total	352	221	107	67
		NON- MED	ICAL STAFF		
1	Clinical Psychologist	1	1	1	0
2	Pharmacist	6	4	2	1
3	Speech Therapist	1	0	0	0
4	Physiotherapist	6	4	2	2
6	Nutritionist	2	1	0	0
7	Optometrist	2	1	1	0
	Total	18	11	6	3
	_	PARAMED	ICAL STAFF		
1	Clinical Technologist (Radiology)	3	2	1	1
2	Clinical Technologist (Pathology)	3	2	1	1
3	Clinical Technologist (Cardiology)	2	1	0	0
4	Clinical Technologist (Dental)	2	1	1	0
5	Clinical Technologist (Pharmacy)	8	5	2	1
6	Clinical Technologist (Anaesthesia)	6	3	2	1

	STAFFING STANDARDS FOR FLH HOSPITALS				
S. No.	Staff Category	Category A Hospitals	Category B Hospitals	Category C Hospitals	Category D Hospitals
7	Clinical Technologist (Surgical)	6	3	2	1
8	Clinical Technologist (Physiotherapy)	1	1	0	0
9	Clinical Technician (radiology)	8	6	6	3
10	Clinical Technician (Dental)	8	6	3	2
11	Clinical Technician (pathology)	10	8	7	4
12	Clinical Technician (ophthalmology)	5	5	2	0
13	Clinical Technician (Cardiology)	12 with at least 20 % female staff.	8 with at least 20 % female staff.	7 with at least 20 % female staff.	4 with at least 20 % female staff.
14	Clinical Technician (Surgical)	32	24	10	6
15	Clinical Technician (Anaesthesia)	22	17	8	4
16	Clinical Technician (Pharmacy)	30	20	15	10
17	PHC Technician Multipurpose	7	6	4	3
18	PHC Technician (MCH)	13	11	8	5
19	Physiotherapy Technician	7	5	2	1
20	Clinical technician (Dialysis)	13	9	0	0
21	Clinical technician Pulmonology	4	4	0	0
22	Clinical technician Gastroenterology	4	0	0	0
23	INCENERATOR MAN	1	1	1	1
	Total	194	148	66	39

	STAFFING STANDARDS FOR FLH HOSPITALS					
S. No.	Staff Category	Category A Hospitals	Category B Hospitals	Category C Hospitals	Category D Hospitals	
	ADMINISTRATIVE AND SUPPORT STAFF					
1	Biomedical Engineer	1	0	0	0	
2	Biomedical Technician	1	1	0	0	
4	Account Officer	1	1	0	0	
5	Head Clerk	1	1	0	0	
7	Accountant	1	1	1	1	
8	Statistical Officer	1	1	1	0	
9	Social Welfare Officer	1	1	1	0	
10	Store Keeper	3	3	2	1	
11	Computer Operator	20	20	10	3	
12	Naib Qasid	8	6	4	3	
13	Senior Clerk	3	2	1	0	
14	Driver	3 per ambulance and 1 per office vehicle	3 per ambulance and 1 per office vehicle	3 per ambulance and 1 per office vehicle	3 per ambulance and 1 per office vehicle	
15	Junior Clerk	7	7	3	2	
16	Receptionist	2	2	1	0	
17	Chowkidar/ Security Guard	25	20	10	6	
18	Telephone Operator	6	4	3	2	
19	Gardner/Mali	10	10	4	2	
20	Cleaners/Sweeper	55	43	13	6	
21	Laundry	10	8	4	2	
22	Tube Well Operator	3	3	3	3	
23	Ward Orderly/ Attendant	155 (male Female)	120 (male female)	50 (male/ female)	30 (male/ Female)	
24	Plumber	3	2	2	1	
25	Electrician	4	3	2	1	

	STAFFING STANDARDS FOR FLH HOSPITALS				
S. No.	Staff Category	Category A Hospitals	Category B Hospitals	Category C Hospitals	Category D Hospitals
26	Carpenter	3	2	2	0
27	Tailor	2	1	1	1
28	Generator / Fog Machine Operator	2	2	1	1
38	Air Condition Technicians	3	3	2	1
39	Dhobi/Washerman	7	6	4	2
	Total	338	273	125	68
	Grand Total	1089	778	365	202

^{*}Cooking, washing and sanitary services may be contracted out

Essential Medicines and Supplies

Considering implementation of prioritized interventions for the EPHS at community and PHC centre level, the essential medicines and supplies have been mentioned in this section (in blue font). However, some additional medicines and supplies have also been included which health care providers use as alternate medicines or for management of other common illnesses (in black font).

At the community level, the essential medicines and supplies defined by the Lady health Workers' programme are as following:

Essential Medicines and Supplies at Community Level

For Lady Health Worker

- Tab Paracetamol
- Syrup Paracetamol
- Syrup Amoxicillin
- Tab Mebendazole
- ORS (Sachet)
- Eye ointment
- Tab. Ferrous salt + Folic Acid
- Syrup Zinc
- Syrup B complex

For other community level interventions

- Vaccine along with auto-destructible syringes and cold chain
 - BCG Vaccine
 - Oral Polio Vaccine
 - Injectable Polio Vaccine
 - Hepatitis B Vaccine
 - Measles Vaccine
 - Tetanus Toxoid
 - Pentavalent Vaccine

Essential Medicines and Supplies at Community Level

- Benzyl Benzoate Lotion
- Condoms
- Oral Contraceptive Pills/ emergency pill
- Injectable contraceptive (Depo Provera) with syringes
- Antiseptic Lotion
- Cotton Bandages
- Cotton roll

- Pneumococcal Vaccine
- Rota vaccine
- Clean Delivery kits (for LHV)
- Vitamin A
- Deworming medicines
- Medicines and supplies for high-risk populations
- (RUSF provision at community level to be explored especially in food insecure areas)

Following groups of essential medicines have been proposed at the 8/6 BHUs, 24/7 BHUs, and RHCs considering the conditions/illnesses that are proposed to be managed in the EPHS package of services.

Groups of Essential Medicines and Supplies at PHC centre and FLH

- Anaesthetics (Local)
- Analgesics (NSAIDs)
- Anti-Allergic (Anaphylaxis)
- Antidotes and other substances used in poisoning
- Anti-Epileptics Anticonvulsants
- Antibiotics/Antimicrobial
- Anti-Helminthic
- Anti-Fungal
- Anti-Tuberculosis Drugs
- Anti-Diabetics
- Anti-Malarial
- GIT Medicines

- Cardiovascular Medicines
- Medicines Affecting Coagulation
- Oxytocic Medicines
- Ophthalmic Medicines
- ENT Medicines
- I/V Infusions (Plasma Substitutes)
- Vitamins, Minerals and Food supplements
- Medicines for Mental and Behavioural Disorders & Tranquilizers
- Anxiolytics
- Contraceptives
- Vaccines and Sera

The detailed list of medicines and supplies (essential and alternate + additional medicines) recommended at the PHC centre & FLH are provided in the Annexure A and B.

Essential Equipment and Furniture

A standard list of equipment for community level and PHC facilities have been developed to compliment the EPHS package of the interventions to achieve the goals of the UHC.

At the community level, following equipment are required.

Essential Equipment at Community Level			
LHW Kit Bag	Weighing machine (salter)		
Stethoscope	 Weighing machine (Adult) 		
BP Apparatus (Dial)	Mid upper arm circumference (MUAC)		
Thermometer Clinical/ Infra-red thermometer	tapePlain Scissors		
Torch with batteries	Respiratory counter		

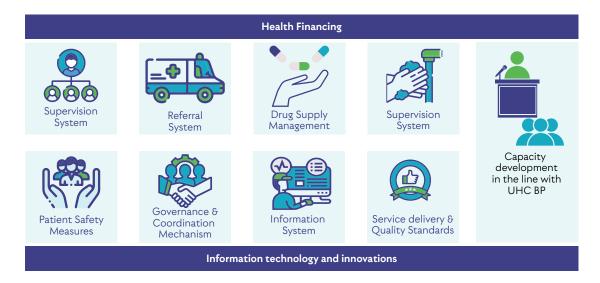
In order to effectively implement the prioritized EPHS interventions at different types of PHC centre level facilities, a group of essential equipment and furniture is recommended, which is as following

Group of Essential Equipment and Furniture at PHC centre and FLH			
 Equipment for Emergency and General services Equipment for Growth monitoring and Delivery room 	Operation theatreDental unitLab equipment and reagents		
Dilatation & Curettage (D&C) set	• Linen		
Caesarean section set	Transport		
Indoor equipment including hospital beds	Miscellaneous including furniture		
Procedure room			

A detailed list of essential equipment and miscellaneous items including furniture by different types of PHC centre and FLH is provided in Annexure C and D.

HEALTH SYSTEM AND MANAGEMENT

A key element in ensuring successful implementation of the EPHS is to strengthen the supporting functions of the health system. There are different health system and health management components which are critical to ensure effective delivery of essential health services. These systems are usually managed at district level or above to ensure efficiency and uniformity. Options for different health system components and their costing/ effectiveness will be discussed separately.



In this section, some of the key health management arrangement at the community and PHC centre level are as following:

Supervision

Supervision is the act or function of overseeing something (health facility/ services) or service providers. Generally, supervision contains elements of providing knowledge, helping to organize tasks, enhance motivation, and monitoring activity and results; the amount of each element is varying in different contexts.

- At community level, there is a dedicated supervisor (Lady Health Supervisor) to supervise the activities of LHWs in the catchment area. She is supposed to visit each LHW at least once in a month and do structured supervision using checklist. In addition, concerned health facility incharge or LHV trainer should carry out supervision activities. The services which are offered by community-based organizations, have its own supervisory mechanism considering the design of intervention.
- At PHC centre (BHU), at least one visit should be ensured on monthly basis by the district level supervisor and more frequently by the tehsil level supervisor.

- At PHC centre (24/7 BHU), at least two visits should be ensured on monthly basis by the district level supervisor and more frequently by the tehsil level supervisor.
- At PHC centre (RHC), at least three visits should be ensured on monthly basis by the district level supervisor and more frequently by the tehsil level supervisor.

The following should be ensured during supervision activities at all levels:

- a. Use of checklist for quality supervision. Option for smartphone application-based checklist may also be considered for immediate reporting to district health management team and action by the concerned
- b. Written comments with signature should be ensured on registers for follow up actions
- c. Verbal/ written feedback should be provided to supervise with few actionable points, and discussion of supervisee performance
- d. Supervisee should be supported in decision making using the available data

Management Meetings

Community based workers should attend monthly meeting at the health facility to submit report, collect medicines and supplies, hold discussion with trainers on service delivery related issues and continuing education.

At PHC centre and FLH level, short and structured weekly management meetings should be held to discuss issues and agree on few actionable points. Agenda items of these meeting should be but not limited to: Health information data quality and timeliness reporting, maintenance of record, utilization of services and their quality, disease data and preventive measures, community engagement, work conditions, finance & budget, decision-making and follow up actions.

Community Engagement and Feedback System

At community level, each LHW is expected to organize Health committee and Women group and call meeting on monthly basis to discuss health related issues. PW councillor can also ensure community level health awareness and education sessions in collaboration with LHWs, while supporting the health facility staff in organizing health education sessions of patients/ clients visiting health facilities. CBO workers are also involved in health education and awareness raising activities among high-risk groups.

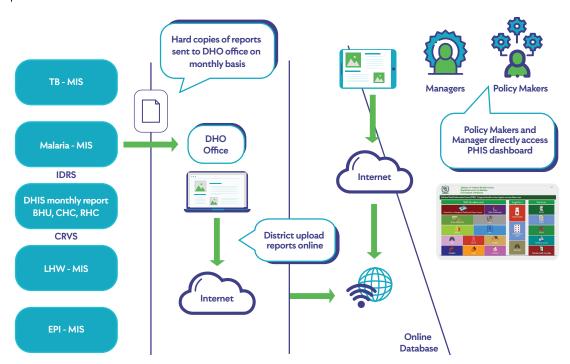
For getting Patient/ Client opinion and feedback on the LHW service provision, LHS can use her checklist or informal discussion to ensure feedback from some community members. At the PHC centre level, different options for opinion/ feedback from patients/ clients could be by fixing a complaint box in the facility, regular official meeting with community members, informal discussion with community members, using website of the ministry/ departments of health, toll free number etc.

Health Management Information System

Monitoring reflects the periodic collection and review of information on services implementation, coverage and use for comparison with implementation plans. Monitoring identifies shortcomings well in time and thus of critical importance for providing quality care. Timely and reliable data is needed which is helpful for decision making and strengthening of health systems. Monitoring data could be used to better adapt strategies to local conditions, with the aim of increasing effectiveness.

It is important that the supervision activities should have focus on the data recording and reporting and triangulate/ cross-check the monitoring data relayed through information system and the actual service provision. If the monitoring data relayed through the information system is of reasonable quality, then it should be used for planning the supervisory visits, focussing on the weaker service delivery points. Monitoring and routine supervision complement each other and are central to bringing transparency and accountability within the health system.

At the present, the information flow from the service providers in PHC centre is not digitised. There are multiple health information systems including LHW-MIS, EPI-MIS, Malaria-MIS, TB-MIS and PHC centre level District Health Information System (DHIS). The reports for all these health information systems are sent in hard copy to the district office on monthly basis where they are entered into the system and the data becomes available at central repository for the respective information system. All these individual systems have been linked to a common platform "Pakistan Health Information System" where the managers and the policy makers can have ready access to these systems. A schematic description of current information flows has been depicted in the picture below.



Government is considering the option of a (paperless) digital health information system at all levels. In the meantime, following MIS tools are required at community and PHC centre level.

Essential MIS Tools at Community and PHC Centre Level

For Lady Health Worker

- Map of catchment area
- Family/ Khandan register
- Dairy
- Treatment register
- Mother/ New-born checklist
- Referral slip
- MCH card
- Health Education material
- Flip chart
- Monthly report
- Catchment population chart

For PHC Centre

- Map of catchment area and Demographic details
- Central registration point register
- OPD ticket
- Medicine requisition slip
- Outpatient department register
- OPD abstract form
- Laboratory register
- Referral slip
- Radiology/Ultrasonography/CT Scan/ECG register

For PHC Centre

- Indoor Patient Register
- Indoor Abstract Form
- Daily Bed Statement register
- Operation Theatre (OT) register
- Family Planning register
- Family Planning card
- Maternal Health register
- TB register
- TB treatment card
- Antenatal card
- Obstetric register
- Health education material
- Monthly report
- Daily medicine expense register
- Stock register (Medicine/Supplies)
- Stock register (Equipment/Furniture/Linen)
- Community meeting register
- Facility staff meeting register
- Secondary facility report form
- Catchment area population chart
- Procedures manual for DHIS
- LQAS form

District Monitoring & Evaluation System

Main outcome level indicator at district level is 'Universal Health Coverage Index' which is a cumulative indicator of 4 priority areas and 16 priority indicators. This information should preferably be gathered using national and provincial health & social sector surveys. In case, information is not available than district level survey may be considered to collect information.

For services access and readiness assessment (SARA) of health facility/ district for delivery of EPHS, SARA tool has been adopted for Pakistan with support of WHO and University of Manitoba. The same has been aligned with the EPHS prioritized interventions. It is recommended to repeat the survey at district level with 3-5 years intervals. In addition, it is important to conduct qualitative research to assess community needs, health seeking behaviours and perceptions about quality of health services. Formative research to understand and monitor behaviours and prioritize communication messages is also important, along with other research agenda.

Infection Prevention

The infection prevention at community and PHC centre is proposed for

Separate Washrooms for patients/clients

- Functional washrooms adjacent to waiting areas must be ensured with availability of water, soap
 / sanitizers, tissue papers etc.
- Cleanliness must be ensured at all times with waste disposable bins

Individual/Staff

- Ensure cleanliness
- Maintain hand hygiene, for preventing cross-contamination (person to person or contaminated object to person) – availability of sanitizers
- Have personal protective equipment available (caps, masks, aprons, eyewear, gloves, closed-toe shoes) and use it appropriately
- Prevent needle/sharp injuries

Facility

- Adequate supply of clean drinking water
- Use containers for sharps disposal and dispose these safely
- Ensure that clean supplies are available at all sites (gauze, cotton wool, instruments, plastic containers etc)
- Ensure that antiseptics and disinfectants are available and are used appropriately
- Develop and maintain shelf-life system to store High-Level Disinfectants (HLD) and sterile items
- Ensure proper collection and cleaning of soiled linen
- Follow waste handling, collection and disposal guidelines properly

Processing/ Sterilization of equipment

Perform point-of-use decontamination of instruments and other items.

- Have a separate area for instrument cleaning, where instruments and items are properly cleaned.
- Ensure proper instrument processing, with facilities for HLD and sterilization.
- The proposed equipment for decontamination of instruments at the 24/7 BHU Plus and RHC include electric autoclave, non-electric autoclave, electric dry heat sterilizer, electric boiler/steamer, non-electric boiler/steamer and chemical HLD. At the 8/6 BHU, electric autoclave and chemical HLD is proposed.

Waste Management

PHC centre level facilities should have the waste management guidelines available in order to reduce the amount of waste, and avoid mixing of general waste (paper, empty juice box, toffee wrappers, packaging) with infectious waste (e.g., dressings, needles) in different assigned colours bin and have regular capacity building of the staff and sweepers to improve practices related to waste management.

Waste management inside the facility should focus on

Waste collection

- Use appropriate Personal Protective Equipment (utility gloves, eye protection and toe covered, long plastic shoes)
- Remove gloves immediately after disposing waste, and perform hand hygiene by washing hands with plain soap and water
- Collect waste in leak proof containers
- Leak proof containers once when three quarters full should be emptied. Do not wait for them to get full
- Human waste, such as the placenta, must be placed in double bags in the leak proof container
- Keep waste collection area clean and free of spills

Waste disposal

- General waste should be discarded in the nearby waste disposal area
- Contaminated Liquid waste (blood, urine, faeces and other body fluids) should be emptied in a toilet/sink to get them drained into a sewer system
- Solid waste (used dressings and other materials contaminated with blood and organic matter)
 should be buried in the rubbish pit or incinerated
- Sharps containers should be buried in rubbish pit or incinerated or open burning with protection
- Sharps may also be stored in a protected manner for offsite removal / burning in district incinerator
- Incinerator in DHQ hospital is recommended

Referral Services

Referral system is an essential element of an efficient health care delivery system where the patient load is distributed according to services need. For effective referral within the primary health care following propositions are made to make the referral system more effective.

There are different options for establishing a functional referral system including provision of ambulance to each health facility, pooling of ambulances at specific hubs and linking with on line services, using the services of philanthropist ambulance services or 1122 initiatives. Details of these interventions will be further explored in the district health system report. At this stage, following should be considered:

- The community level health workers and all PHC centre level facilities should be linked to each other and referral hospitals digitally with a bed registry and ambulance service system.
- Functional ambulances should be available in all PHC centre level facilities and position of drivers and paramedics should be filled.
- The referral forms should be available and the record of the referred patients adequately maintained.
- Referral protocols should be displayed in the health facilities
- The list of the referral facilities with contact numbers should be displayed/provided to community health worker so that in instances of emergency, a timely referral could be made and the referred facility is informed well in time to be able to provide requisite services.

Capacity Development

All community and PHC centre level, staff must receive training/s for at least 15 days every year. An assessment is being done to identify training needs aligned with UHC Benefit Package of Pakistan. However, following key trainings (others to be developed) are recommended for the technical staff at community and PHC centre level at this stage.

Training for Community Level Workers
Training of Trainers (LHWs)
LHW Training and Inservice Training
Lady Health Supervisor Training
15 Days Refresher Training (Annual)
Specialised/ Refresher Training including Maan ki Sehat and Bachay ki Sehat
Training for Vaccinators
Training of PW/ HPN Councillor
Training on Infection Control and Disease Surveillance (for surveillance staff)
Training of CBO staff on HIV prevention

Training for PHC Centre Level Technical Staff

Family Planning (FP)

Integrated Management of Pregnancy and Childbirth (IMPAC)

Emergency Obstetric and New-born Care (EmONC)

Emergency New-born Care and Helping Baby Breathe

Integrated Management of Neonatal and Childhood Illnesses (IMNCI)

Syndromic Management of Sexually Transmitted Infections including HIIV

Malaria, Dengue and Vector Control

TB-DOTS

Non-Communicable Diseases (e.g. Diabetes, Cardio-Vascular Diseases, Respiratory Diseases)

Infection Control and Waste Management

Mid-level management of EPI

Management of malnutrition + Infant & Young Child Feeding

Anaesthesia and Surgical procedures at PHC level

District Health Information System (DHIS) and Use of Information

Logistic and Supply management

ANNEXURES

A: Essential Medicines and Supplies - at PHC centre level facilities

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
		Anaesthetic	es (Local)	
1	Lidocaine (Vial)	Yes	Yes	Yes
2	Lidocaine (Topical)	Yes	Yes	Yes
3	Inj. Lignocaine + Epinephrine	No	Yes	Yes
		Analgesics (NSAIDs)	
4	Tab. Acetylsalicylic Acid	Yes	Yes	Yes
5	Tab. Mefenamic Acid	Yes	Yes	Yes
6	Tab. Diclofenac 50 mg	Yes	Yes	Yes
7	Diclofenac (Ampule)	No	No	Yes
8	Tab. Ibuprofen 200 mg	Yes	Yes	Yes
9	Tab. Ibuprofen 400 mg	Yes	Yes	Yes
10	Syp. Ibuprofen	Yes	Yes	Yes
11	Tab. Paracetamol 500 mg	Yes	Yes	Yes
12	Syp. Paracetamol	Yes	Yes	Yes
13	Inj. Paracetamol	No	Yes	Yes
14	Paracetamol (Suppository)	No	No	Yes
		Anti-Allergic (A	naphylaxis)	
15	Tab. Chlorpheniramine	Yes	Yes	Yes
16	Inj. Chlorpheniramine	Yes	Yes	Yes
17	Syp. Chlorpheniramine	Yes	Yes	Yes
18	Tab. Loratadine	No	Yes	Yes
19	Syp. Loratadine	No	Yes	Yes
20	Inj. Dexamethasone	Yes	Yes	Yes
21	Tab. Dexamethasone	Yes	Yes	Yes
22	Epinephrine (Ampoule)	No	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
23	Inj. Hydrocortisone 100mg	Yes	Yes	Yes
24	Tab. Prednisolone 5mg	Yes	Yes	Yes
	Antid	otes and other substa	ances used in poisoning	
25	Atropine (Ampoule)	Yes	Yes	Yes
26	Charcoal Activated (Powder)	Yes	Yes	Yes
27	Inj. Diazepam	Yes	Yes	Yes
28	Naloxone (Ampoule)	No	Yes	Yes
		Anti-Epileptics Ar	nticonvulsants	
29	Tab. Carbamazepine 200 mg	No	Yes	Yes
30	Syp. Carbamazepine	No	Yes	Yes
31	Inj. Magnesium Sulphate	Yes	Yes	Yes
32	Tab. Phenobarbital	No	No	Yes
33	Inj. Phenobarbital	No	No	Yes
34	Tab. Phenytoin	No	No	Yes
		Antibiotics/An	timicrobial	
35	Tab./Cap. Amoxicillin 250 mg	Yes	Yes	Yes
36	Tab./Cap. Amoxicillin 500 mg	Yes	Yes	Yes
37	Syp. Amoxicillin (Powder for Suspension) 250 mg	Yes	Yes	Yes
38	Syp. Amoxicillin (Powder for Suspension) 500 mg	Yes	Yes	Yes
39	Inj. Amoxicillin 500 mg	No	No	Yes
40	Cap. Ampicillin 250 mg	Yes	Yes	Yes
41	Cap. Ampicillin 500 mg	Yes	Yes	Yes
42	Tab. Calvanic Acid + Amoxicillin	Yes	Yes	Yes
43	Ampicillin (Powder for Suspension) 250 mg	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
44	Ampicillin (Powder for Suspension) 500 mg	Yes	Yes	Yes
45	Inj. Ampicillin 500 mg	No	Yes	Yes
46	Inj. Benzathine Penicillin 6lakh unit	Yes	Yes	Yes
47	Inj. Benzathine Penicillin 12lakh unit	Yes	Yes	Yes
48	Cap. Cefixime 100mg/400mg	No	No	Yes
49	Tab. Ciprofloxacin 250 mg	Yes	Yes	Yes
50	Tab. Ciprofloxacin 500 mg	Yes	Yes	Yes
51	Syp. Ciprofloxacin 250 mg	Yes	Yes	Yes
52	Cap. Azithromycin	No	No	Yes
53	Azithromycin (Suspension)	No	No	Yes
54	Tab. Cotrimoxazole DS	Yes	Yes	Yes
55	Syp. Cotrimoxazole	Yes	Yes	Yes
56	Cap. Doxycycline	Yes	Yes	Yes
57	Inj. Gentamicin 80 mg	Yes	Yes	Yes
58	Tab. Metronidazole 400 mg	Yes	Yes	Yes
59	Inj. Metronidazole	No	No	Yes
60	Syp. Metronidazole 200mg/60 ml	Yes	Yes	Yes
61	Tab. Nitrofurantoin	No	No	Yes
62	Inj. Procaine penicillin	Yes	Yes	Yes
63	Tab. Phenoxymethylpenicillin	No	Yes	Yes
64	Syp. Phenoxymethylpenicillin	No	No	Yes

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
		Anti-Heln	ninthic	
65	Tab Mebendazole	Yes	Yes	Yes
66	Tab. Pyrantel	Yes	Yes	Yes
67	Syp. Pyrantel	Yes	Yes	Yes
		Anti-Fu	ngal	
68	Clotrimazole (Vaginal Cream)	No	Yes	Yes
69	Clotrimazole (Vaginal Tablet)	Yes	Yes	Yes
70	Clotrimazole (Topical Cream)	Yes	Yes	Yes
71	Tab. Nystatin	Yes	Yes	Yes
72	Nystatin (Drops)	Yes	Yes	Yes
73	Nystatin (Pessary)	No	No	Yes
		Anti-Tubercul	osis Drugs	
74	Tab. Ethambutol	No	Yes	Yes
75	Ethambutol (Oral Liquid)	No	Yes	Yes
76	Tab. Isoniazid	No	Yes	Yes
77	Syp. Isoniazid	No	Yes	Yes
78	Tab. Pyrazinamide	No	Yes	Yes
79	Cap. Rifampicin	No	Yes	Yes
80	Syp. Rifampicin	No	Yes	Yes
81	Inj. Streptomycin	No	Yes	Yes
82	Tab. Ethambutol + Isoniazid	No	Yes	Yes
83	Tab. Isoniazid + Rifampicin	No	Yes	Yes
84	Tab. Isoniazid + Pyrazinamide + Rifampicin	No	Yes	Yes
85	Tab. Rifampicin + Isoniazid + Pyrazinamide + Ethambutol	No	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
86	Tab. Ethambutol + Isoniazid + Rifampicin	No	Yes	Yes
		Anti-Dial	petics	
87	Tab. Glibenclamide 4 mg	No	Yes	Yes
88	Tab. Metformin 500 mg	Yes	Yes	Yes
89	Inj. Insulin Regular	Yes	Yes	Yes
90	Inj. Insulin long acting	Yes	Yes	Yes
		Anti-Ma	larial	
91	Tab. Chloroquine	No	Yes	Yes
92	Syp. Chloroquine	No	Yes	Yes
93	Tab. Sulfadoxine + Pyrimethamine	No	No	Yes
94	Tab. Artesunate + Sulfadoxine + Pyrimethamine	Yes	Yes	Yes
95	Artemether (Ampule)	No	Yes	Yes
		GIT Medi	icines	
96	Inj. Hyoscine	Yes	Yes	Yes
97	Tab. Hyoscine	Yes	Yes	Yes
98	Tab. Metoclopramide	Yes	Yes	Yes
99	Syp. Metoclopramide	Yes	Yes	Yes
100	Inj. Metoclopramide	Yes	Yes	Yes
101	Cap. Omeprazole 40 mg	Yes	Yes	Yes
102	Inj. Omeprazole	Yes	Yes	Yes
103	Tab. Esomeprazole	Yes	Yes	Yes
104	Cap. Esomeprazole	Yes	Yes	Yes
105	Tab. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	Yes
106	Syp. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	Yes
107	ORS (Sachet)	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
108	Tab. Bisacodyl	Yes	Yes	Yes
109	Glycerine (Suppository)	Yes	Yes	Yes
		Cardiovasculai	Medicines	
110	Glyceryl Trinitrate (Sublingual)	Yes	Yes	Yes
111	Isosorbide Dinitrate (Sublingual)	Yes	Yes	Yes
112	Tab. Enalapril	No	No	Yes
113	Tab. Atenolol 50 mg	Yes	Yes	Yes
114	Tab. Methyldopa	Yes	Yes	Yes
115	Inj. Methyldopa	No	No	Yes
116	Tab. Hydrochlorothiazide	Yes	Yes	Yes
117	Inj. Hydrochlorothiazide	Yes	Yes	Yes
118	Tab. Furosemide 40 mg	Yes	Yes	Yes
119	Inj. Furosemide 40 mg	Yes	Yes	Yes
120	Tab. Captopril 25 mg	No	Yes	Yes
121	Tab. Amlodipine 5 mg	No	Yes	Yes
		Medicines Affection	ng Coagulation	
122	Inj. Tranexamic Acid 500	Yes	Yes	Yes
123	Cap. Tranexamic Acid 500 mg	Yes	Yes	Yes
	Oxytocic Medicines			
124	Tab. Misoprostol	Yes	Yes	Yes
125	Inj. Oxytocin	Yes	Yes	Yes
		Respiratory N	Medicines	
126	Tab. Salbutamol 4 mg	Yes	Yes	Yes
127	Salbutamol (Inhaler)	Yes	Yes	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
128	Ammonium Chloride+ Chloroform + Menthol + Diphenhydramine + Sodium Citrate (Antitussive Expectorant)	Yes	Yes	Yes
129	Inj. Aminophylline	Yes	Yes	Yes
130	Oxygen Cylinder	Yes	Yes	Yes
		Ophthalmic I	Medicines	
131	0.5% Chloramphenicol (Eye Drops)	Yes	Yes	Yes
132	Ciprofloxacin (Eye Drops)	No	Yes	Yes
133	Betamethasone 0.5% w/v Neomycin eye drops	Yes	Yes	Yes
134	Tetracycline (Eye Ointment)	Yes	Yes	Yes
		ENT Med	icines	
135	Boroglycerine (Ear Drops)	Yes	Yes	Yes
136	Polymyxin B + Lignocaine (Ear Drops)	Yes	Yes	Yes
137	Ciprofloxacin (Ear Drops)	Yes	Yes	Yes
138	Xylometazoline (Nasal Drops)	No	Yes	Yes
		I/V Infusions (Plasr	na Substitutes)	
139	Plasma Expander (Infusion) 1000ml	No	Yes	Yes
140	Glucose/Dextrose (Infusion) 1000ml	Yes	Yes	Yes
141	Glucose/Dextrose (Ampoule)	Yes	Yes	Yes
142	Normal Saline (Infusion) 1000ml	Yes	Yes	Yes
143	Dextrose + Saline (Infusion) 1000ml	Yes	Yes	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
144	Ringer's Lactate (Infusion) 500ml	Yes	Yes	Yes
145	Potassium Chloride (Solution)	Yes	Yes	Yes
146	Inj. Sodium Bicarbonate	No	Yes	Yes
147	Water for Injection (Ampule)	Yes	Yes	Yes
	Vi	tamins, Minerals and	Food supplements	
148	Tab. Ascorbic Acid 500 mg	Yes	Yes	Yes
149	Inj. Calcium Gluconate	No	Yes	Yes
150	Tab. Calcium 100 mg	Yes	Yes	Yes
151	Tab. Ergocalciferol (Vit. D)	Yes	Yes	Yes
152	Tab. Ferrous fumarate	No	Yes	Yes
153	Syp. Ferrous fumarate	Yes	Yes	Yes
154	Tab. Folic Acid	No	Yes	Yes
155	Tab. Ferrous salt + Folic Acid	Yes	Yes	Yes
156	Inj. Vitamin K	No	Yes	Yes
157	Tab. /Cap. Retinol (Vitamin A) after NIDs	Yes	Yes	Yes
158	Tab. Zinc Sulphate	Yes	Yes	Yes
159	Syrup Zinc	Yes	Yes	Yes
160	Tab. B Complex	Yes	Yes	Yes
161	Tab. Multivitamins	Yes	Yes	Yes
162	Multiple Micronutrients (Sachet)	Yes	Yes	Yes
163	Ready to Use Treatment Food	Yes	Yes	Yes
164	Ready to Use Supplement Food	Yes	Yes	Yes
		Dermatol	ogical	
165	Benzyl Benzoate Lotion	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
166	Betamethasone Cream/ Lotion	Yes	Yes	Yes
167	Calamine Lotion	Yes	Yes	Yes
168	Hydrocortisone Cream	Yes	Yes	Yes
169	Polymyxin B + Bacitracin Zinc (Ointment)	Yes	Yes	Yes
170	Silver Sulfadiazine Cream	Yes	Yes	Yes
171	Sodium Thiosulfate (Solution)	No	No	Yes
	Medicines fo	or Mental and Behavio	oural Disorders & Tranquil	izers
172	Inj. Chlorpromazine	No	Yes	Yes
173	Tab. Clomipramine	No	Yes	Yes
174	Tab. Haloperidol	No	Yes	Yes
175	Tab. Diazepam 2 mg	Yes	Yes	Yes
176	Inj. Diazepam 10 mg	Yes	Yes	Yes
177	Tab. Alprazolam 0.5 mg	No	Yes	Yes
		Anxioly	rtics	
178	Tab. Alprazolam 0.5 mg	Yes	Yes	Yes
179	Tab. Diazepam 2 mg	Yes	Yes	Yes
		Contrace	ptives	
180	Condoms	Yes	Yes	Yes
181	Ethynylestradiol + Norethisterone (Combined Oral Pills)	Yes	Yes	Yes
182	Progesterone Only Pills (Levonorgestrel)	Yes	Yes	Yes
183	Emergency Contraceptive Pills (Levonorgestrel)	Yes	Yes	Yes
184	IUCD (Copper T/ Multiload)	Yes	Yes	Yes

			Availability (Yes/No)		
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
185	Inj. Medroxyprogesterone Acetate (Dmpa)	Yes	Yes	Yes	
186	Inj. Norethisterone Enanthate (Net-En)	Yes	Yes	Yes	
187	Inj. Estradiol Cypionate + Medroxyprogesterone Acetate	Yes	Yes	Yes	
188	Levonorgestrel-Releasing Implant (Subdermal)	No	Yes	Yes	
189	Etonogestrel-Releasing Implant (Subdermal)	No	Yes	Yes	
	Vaccines and Sera				
190	BCG Vaccine	Yes	Yes	Yes	
191	Oral Polio Vaccine	Yes	Yes	Yes	
192	Injectable Polio Vaccine	Yes	Yes	Yes	
193	Hepatitis B Vaccine	Yes	Yes	Yes	
194	Measles Vaccine	Yes	Yes	Yes	
195	Tetanus Toxoid	Yes	Yes	Yes	
196	Pentavalent Vaccine	Yes	Yes	Yes	
197	Pneumococcal Vaccine	Yes	Yes	Yes	
198	Rota vaccine	Yes	Yes	Yes	
199	Anti-Rabies Vaccines (PVRV)	No	No	Yes	
200	Anti-Snake Venom Serum	No	No	Yes	
	1	Disposables/Antisept	tics/ Disinfectants		
201	Syringe 1 ml (Disposable)	Yes	Yes	Yes	
202	Syringe 3 ml (Disposable)	Yes	Yes	Yes	
203	Syringe 5 ml (Disposable)	Yes	Yes	Yes	
204	Syringe 10 ml (Disposable)	Yes	Yes	Yes	
205	Syringe 20 ml (Disposable)	Yes	Yes	Yes	

			Availability (Yes/No)	
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
206	Syringe 50 ml (Disposable)	Yes	Yes	Yes
207	IV Set	Yes	Yes	Yes
208	Scalp Vein Set	Yes	Yes	Yes
209	Volumetric Chamber (IV Burette)	Yes	Yes	Yes
210	IV Cannula (18, 20,22 & 24G)	Yes	Yes	Yes
211	Adhesive Tape	Yes	Yes	Yes
212	Sterile Gauze Dressing	Yes	Yes	Yes
213	Paper tape	No	Yes	Yes
214	Antiseptic Lotion	Yes	Yes	Yes
215	Cotton Bandage (3", 4" & 6")	Yes	Yes	Yes
216	Absorbent Cotton Wool	Yes	Yes	Yes
217	Crepe Bandage	Yes	Yes	Yes
218	Examination Gloves (All sizes)	Yes	Yes	Yes
219	Sterile Surgical Gloves (All sizes)	Yes	Yes	Yes
220	Silk Sutures Sterile (2/0, 3/0, 4/0) with needle	Yes	Yes	Yes
221	Chromic Catgut Sterile Sutures (different sizes) with needle	Yes	Yes	Yes
222	Face Mask Disposable	Yes	Yes	Yes
223	Blood Lancets	Yes	Yes	Yes
224	Slides	Yes	Yes	Yes
225	Endotracheal Tube (different sizes)	Yes	Yes	Yes
226	Nasogastric Tube (different sizes)	Yes	Yes	Yes
227	Resuscitator Bag with Mask	Yes	Yes	Yes

	Medicine/Supplies	Availability (Yes/No)		
Sr. No.		8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
228	Disposable Airways (different sizes)	Yes	Yes	Yes
229	Clean Delivery Kits	Yes	Yes	Yes

Item mentioned in **Blue font** is critical to ensure essential interventions

B. Essential Medicines and Supplies - at First Level Hospital

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / ∢100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
	Anaesthetics	(Local)	
1	Lidocaine 2 % (Vial)	Yes	Yes
2	Lidocaine 5 % (Topical)	Yes	Yes
3	Lidocaine 2% with 1:100,000 epinephrine	Yes	Yes
4	Lidocaine 2% and bupivacaine	No	Yes
5	Xylocaine 1%	Yes	Yes
6	Inj. Ketamine	Yes	Yes
7	Isoflurane Gas	No	Yes
8	Suxamethonium 1-2mg ;4	No	Yes
9	Oxygen supply	Yes	Yes
	Analgesics (N	NSAIDs)	
10	Tab. Acetylsalicylic Acid	Yes	Yes
11	Tab. Mefenamic Acid	Yes	Yes
12	Tab. Diclofenac 50 mg	Yes	Yes
13	Diclofenac (Ampule)	No	Yes
14	Tab. Ibuprofen 200 mg	Yes	Yes
15	Tab. Ibuprofen 400 mg	Yes	Yes
16	Syp. Ibuprofen	Yes	Yes
17	Tab: Paracetamol 325mg	Yes	Yes
18	Tab. Paracetamol 500 mg	Yes	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
19	Tab: Paracetamol 1000mg	Yes	Yes	
20	Syp. Paracetamol	Yes	Yes	
21	Inj. Paracetamol	No	Yes	
22	Inj. Nalbuphine	Yes	Yes	
23	Inj. Toradol	Yes	Yes	
24	Inj. Kinz 0.1 mg	No	Yes	
	Anti-Allergic (Anaphylaxis)			
25	Tab. Chlorpheniramine	Yes	Yes	
26	Inj. Chlorpheniramine	Yes	Yes	
27	Inj. Promethazine 25mg	No	Yes	
28	Syp. Chlorpheniramine	Yes	Yes	
29	Tab. Loratadine	No	Yes	
30	Syp. Loratadine	No	Yes	
31	Inj. Dexamethasone	Yes	Yes	
32	Tab. Dexamethasone	Yes	Yes	
33	Epinephrine (Ampule)	Yes	Yes	
34	Inj. Hydrocortisone	Yes	Yes	
35	Tab. Prednisolone	Yes	Yes	
	Antidotes and other substa	nces used in poisoning		
36	Atropine (Ampule)	Yes	Yes	
37	Charcoal Activated (Powder)	Yes	Yes	
38	Inj. Diazepam	Yes	Yes	
39	Naloxone (Ampule)	No	Yes	
Anti-Epileptics /Anticonvulsants				
40	Tab. Carbamazepine	No	Yes	
41	Syp. Carbamazepine	No	Yes	
42	Inj. Magnesium Sulphate (50%)	Yes	Yes	
43	Tab. Phenobarbital	No	Yes	
44	Inj. Phenobarbital	No	Yes	
45	Tab. Phenytoin	No	Yes	

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
46	Tab: Leviteracetam 500mg	No	Yes	
	Antibiotics/Antimicrobial			
47	Tab./Cap. Amoxicillin 250 mg	Yes	Yes	
48	Tab./Cap. Amoxicillin 500 mg	Yes	Yes	
49	Syp. Amoxicillin (Powder for Suspension) 250 mg	Yes	Yes	
50	Syp. Amoxicillin (Powder for Suspension) 500 mg	Yes	Yes	
51	Inj. Amoxicillin 500 mg	Yes	No	
52	Cap. Ampicillin 250 mg	Yes	Yes	
53	Cap. Ampicillin 500 mg	Yes	Yes	
54	Tab. Calvanic Acid + Amoxicillin	Yes	Yes	
55	Ampicillin (Powder for Suspension) 250 mg	Yes	Yes	
56	Ampicillin (Powder for Suspension) 500 mg	Yes	Yes	
57	Inj. Amikacin 15mg	No	Yes	
58	Inj Clindamycin	No	Yes	
59	Inj. Ampicillin 500 mg	No	Yes	
60	Inj. Benzathine Penicillin 6lakh unit	Yes	Yes	
61	Inj. Benzathine Penicillin 12lakh unit	Yes	Yes	
62	Tab: Penicillin V potassium 125 mg	No	Yes	
63	Inj. Cefazoline 2 g	No	Yes	
64	Inj. Ceftriaxone 80mg	No	Yes	
65	Inj. Cefoxitine 2g	No	Yes	
66	Inj.Cefotaxime 50mg	No	Yes	
67	Cap. Cefixime	No	Yes	
68	Tab. Ciprofloxacin 250 mg	Yes	Yes	
69	Tab. Ciprofloxacin 500 mg	Yes	Yes	
70	Syp. Ciprofloxacin 250 mg	Yes	Yes	
71	Inj. Ethionamide 250mg	No	Yes	
72	Inj. Prothionamide 250 mg	No	Yes	
73	Cap. Azithromycin	No	Yes	

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
74	Azithromycin (Suspension)	No	Yes
75	Tab. Cotrimoxazole DS	Yes	Yes
76	Syp. Cotrimoxazole	Yes	Yes
77	Cap. Doxycycline	Yes	Yes
78	Inj. Gentamicin 5 mg	Yes	Yes
79	Inj. Gentamicin 2 mg	Yes	Yes
80	Inj. Clindamycin 600mg	No	Yes
81	Inj. Clindamycin 900mg	No	Yes
82	Inj. Vancomycin 15mg	No	Yes
83	Inj. Benzylpenicillin 50,000 units	No	Yes
84	Inj. Cloxacillin 50mg	No	Yes
85	Inj. Moxifloxacin 400mg	No	Yes
86	Inj. Piperacillin	No	Yes
87	Inj. Tazobactum	No	Yes
88	Inj. Gatifloxacin 400mg	No	Yes
89	Inj. Chloramphenicol 25mg/kg	No	Yes
90	Inj. Flucloxacillin 50mg	No	Yes
91	Tab. Metronidazole 400 mg	Yes	Yes
92	Inj. Metronidazole	No	Yes
93	Syp. Metronidazole 200mg/60 ml	Yes	Yes
94	Inj. Procaine penicillin	Yes	Yes
95	Tab. Phenoxymethylpenicillin	No	Yes
Anti-Helminthic			
96	Tab. Mebendazole	Yes	Yes
97	Tab. Flagyl	Yes	Yes
98	Inj. Flagyl	Yes	Yes
99	Tab. Pyrantel	Yes	Yes
100	Syp. Pyrantel	Yes	Yes
	Anti-Fun	gal	
101	Clotrimazole (Vaginal Cream)	No	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
102	Clotrimazole (Vaginal Tablet)	Yes	Yes	
103	Clotrimazole (Topical Cream)	Yes	Yes	
104	Tab. Nystatin	Yes	Yes	
105	Nystatin (Drops)	Yes	Yes	
	Antivirals			
106	Tenofovir 300mg	No	Yes	
107	Entecavir 0.5 mg	No	Yes	
108	Sofosbuvir 400 mg	No	Yes	
109	Daclatasvir 60mg	No	Yes	
	Anti-Tuberculo	osis Drugs		
110	Tab. Ethambutol	No	Yes	
111	Ethambutol (Oral Liquid)	No	Yes	
112	Tab. Isoniazid	No	Yes	
113	Syp. Isoniazid	No	Yes	
114	Tab. Pyrazinamide	No	Yes	
115	Cap. Rifampicin	No	Yes	
116	Syp. Rifampicin	No	Yes	
117	Inj. Streptomycin	No	Yes	
118	Tab. Ethambutol + Isoniazid	No	Yes	
119	Tab. Isoniazid + Rifampicin	No	Yes	
120	Tab. Isoniazid + Pyrazinamide + Rifampicin	No	Yes	
121	Tab. Rifampicin + Isoniazid + Pyrazinamide + Ethambutol	No	Yes	
122	Tab. Ethambutol + Isoniazid + Rifampicin	No	Yes	
123	Inj. Isoniazid 1000mg	No	Yes	
124	Inj. Ethinamide 15mg	No	Yes	
125	Inj. Prothionamide	No	Yes	
126	Inj. Clofazmine	No	Yes	
127	Inj. Pyrazinamide 2000mg	No	Yes	
128	Inj. Kanamycin 1000mg	No	Yes	
129	Inj. Amikacin 1000 mg	No	Yes	

		Availability	/ (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
130	Inj. Capreomycin 1000mg	No	Yes
	Anti-Diab	etics	
131	Tab. Glibenclamide 4 mg	No	Yes
132	Tab. Metformin 500 mg	Yes	Yes
133	Inj. Insulin Regular	Yes	Yes
134	Inj. Insulin long acting	Yes	Yes
	Anti-Mal	arial	
135	Tab. Chloroquine	No	Yes
136	Syp. Chloroquine	No	Yes
137	Tab. Artemether + lumefantrine	No	Yes
138	Tab. Artesunate + Sulfadoxine + Pyrimethamine	Yes	Yes
139	Artemether (Ampule)	No	Yes
	GIT Medic	cines	
140	Inj. Hyoscine	Yes	Yes
141	Tab. Hyoscine	Yes	Yes
142	Inj. Zantac	Yes	Yes
143	Tab. Zantac 150mg	Yes	Yes
144	Tab. Metoclopramide	Yes	Yes
145	Syp. Metoclopramide	Yes	Yes
146	Inj. Metoclopramide	Yes	Yes
147	Cap. Omeprazole 40 mg	Yes	Yes
148	Inj. Omeprazole	Yes	Yes
149	Tab. Esomeprazole	Yes	Yes
150	Cap. Esomeprazole	Yes	Yes
151	Tab. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes
152	Syp. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes
153	Antacid Sodium citarate 30ml	Yes	Yes
154	Magnesium trisilicate 300 mg	Yes	Yes

		Availability	/ (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
155	ORS (Sachet)	Yes	Yes
156	Tab. Bisacodyl	Yes	Yes
157	Glycerine (Suppository)	Yes	Yes
	Cardiovascular	Medicines	
158	Glyceryl Trinitrate (Sublingual)	Yes	Yes
159	Isosorbide Dinitrate (Sublingual)	Yes	Yes
160	Tab. Enalapril	No	No
161	Tab. Atenolol 50 mg	Yes	Yes
162	Tab. Methyldopa	Yes	Yes
163	Tab. Hydrochlorothiazide	Yes	Yes
164	Inj. Hydrochlorothiazide	Yes	Yes
165	Tab. Furosemide 40 mg	Yes	Yes
166	Inj. Furosemide 40 mg	Yes	Yes
167	Tab. Captopril 25 mg	No	Yes
168	Tab. Amlodipine 5 mg	No	Yes
169	Tab. Simvastatin 40mg	No	Yes
170	Inj. Dobutamine: 10ug	No	Yes
171	Inj. dopamine; 40 mg: 10ug	No	Yes
172	Inj. Amiodarone 200mg	No	Yes
173	Inj. Adenosine 6mg	No	Yes
174	Inj. Verapamil 5mg	No	Yes
175	Inj. Atenolol 2.5 mg	No	Yes
176	Inj. Verapamil 20mg	No	Yes
177	Inj. Bisoprolol 2.5 mg	No	Yes
178	Tab. Captopril 12.5 mg	Yes	Yes
179	Tab. Lisinopril 10mg	Yes	Yes
180	Tab. Carvedilol 125mg	No	Yes
181	Tab. Nifedipine 20mg	No	Yes
182	Inj. Procainamide 20-25mg	No	Yes
183	Inj. Sotalol 100mg	No	Yes

		Availabilit	y (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
184	Tab. Nitroglycerin 0.4mg	No	Yes
185	Tab. Diltiazem 0.25mg	No	Yes
	Medicines Affectin	g Coagulation	
186	Inj. Tranexamic Acid 500 mg	Yes	Yes
187	Cap. Tranexamic Acid 500 mg	Yes	Yes
	Oxytocic Me	dicines	
188	Tab. Misoprostol 25mcg	Yes	Yes
189	Vaginal Misoprostol 25mcg	Yes	Yes
190	Inj. Ergometrine	Yes	Yes
191	Inj. Oxytocin	Yes	Yes
192	Inj: Prostaglandin E2 (vial)	Yes	Yes
	Respiratory M	edicines	
193	Tab. Salbutamol 4 mg	Yes	Yes
194	Salbutamol (Inhaler)	Yes	Yes
195	Ipratropium 500ug	No	Yes
196	Ammonium Chloride+ Chloroform + Menthol + Diphenhydramine + Sodium Citrate (Antitussive Expectorant)	Yes	Yes
197	Oral Prednisolone 30mg	Yes	Yes
198	Inj. Aminophylline	Yes	Yes
199	Oxygen Cylinder	Yes	Yes
	Ophthalmic M	1edicines	
200	0.5% Chloramphenicol (Eye Drops)	Yes	Yes
201	Ciprofloxacin (Eye Drops)	No	Yes
202	Betamethasone 0.5% w/v Neomycin eye drops	Yes	Yes
203	Tetracycline (Eye Ointment)	Yes	Yes
204	Tobramycin 0.3%	No	Yes
	ENT Medi	cines	
205	Boroglycerine (Ear Drops)	Yes	Yes
206	Polymyxin B + Lignocaine (Ear Drops)	Yes	Yes
207	Ciprofloxacin (Ear Drops)	Yes	Yes

		Availability	y (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / ∢100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
208	Xylometazoline (Nasal Drops)	No	Yes
	Antirheumati	cs Drugs	
209	Tab. Methotrexate 7.5 mg	No	Yes
210	Tab. Hydroxychloroquine 400mg	No	Yes
211	Tab. Leflunomide 10mg/20mg	No	Yes
212	Sulfasalazine 1500mg-3000mg	No	Yes
213	Tab. Prednisolone OR (suspension)	No	Yes
	I/V Infusions (Plasm	a Substitutes)	
214	Plasma Expander (Infusion) 1000ml	No	Yes
215	Glucose/Dextrose (Infusion) 1000ml	Yes	Yes
216	Glucose/Dextrose (Ampule)	Yes	Yes
217	Normal Saline (Infusion) 1000ml	Yes	Yes
218	Dextrose + Saline (Infusion) 1000ml	Yes	Yes
219	Ringer's Lactate (Infusion) 500ml	Yes	Yes
220	Potassium Chloride (Solution) not in drip	Yes	Yes
221	Inj. Sodium Bicarbonate	No	Yes
222	Water for Injection (Ampule) not in drip	Yes	Yes
223	Blood Products (Packed RBCs, Fresh Frozen Plasma Units)	No	Yes
	Vitamins, Minerals and	Food supplements	
224	Tab. Ascorbic Acid 500 mg	Yes	Yes
225	Inj. Calcium Gluconate	Yes	Yes
226	Tab. Calcium 100 mg	Yes	Yes
227	Tab. Ergocalciferol (Vit. D)	Yes	Yes
228	Tab. Ferrous fumarate	No	Yes
229	Syp. Ferrous fumarate	Yes	Yes
230	Tab. Folic Acid	No	Yes
231	Tab. Ferrous salt + Folic Acid	Yes	Yes
232	Inj. Vitamin K	No	Yes
233	Vitamin A Supplement	No	Yes
234	Tab. /Cap. Retinol (Vitamin A) after NIDs	Yes	Yes

		Availability	y (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
235	Tab. Zinc Sulphate	Yes	Yes
236	Syrup Zinc	Yes	Yes
237	Tab: Alendronate	No	Yes
238	Tab. B Complex	Yes	Yes
239	Tab. Multivitamins	Yes	Yes
240	Multiple Micronutrients (Sachet)	Yes	Yes
241	Ready to Use Treatment Food	Yes	Yes
242	F100 and F75	No	Yes
	Dermatolo	ogical	
243	Benzyl Benzoate Lotion	Yes	Yes
244	Betamethasone Cream/ Lotion	Yes	Yes
245	Calamine Lotion	Yes	Yes
246	Hydrocortisone Cream	Yes	Yes
247	Polymyxin B + Bacitracin Zinc (Ointment)	Yes	Yes
248	Silver Sulfadiazine Cream	Yes	Yes
	Medicines for Mental and Behavio	ural Disorders & Tranquiliz	zers
249	Inj. Chlorpromazine	No	Yes
250	Tab. Clomipramine	No	Yes
251	Tab. Haloperidol	No	Yes
252	Tab. Diazepam 2 mg	Yes	Yes
253	Inj. Diazepam 10 mg	Yes	Yes
254	Tab. Alprazolam 0.5 mg	No	Yes
	Anxiolyt	ics	
255	Tab. Alprazolam 0.5 mg	Yes	Yes
256	Tab. Diazepam 2 mg	Yes	Yes
	Contracep	otives	
257	Condoms	Yes	Yes
258	Ethynylestradiol + Norethisterone (Combined Oral Pills)	Yes	Yes
259	Progesterone Only Pills (Levonorgestrel)	Yes	Yes

		Availabilit	/ (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
260	Emergency Contraceptive Pills (Levonorgestrel)	Yes	Yes	
261	IUCD (Copper T/Multiload)	Yes	Yes	
262	Inj. Medroxyprogesterone Acetate (Dmpa)	Yes	Yes	
263	Inj. Norethisterone Enanthate (Net-En)	Yes	Yes	
264	Inj. Estradiol Cypionate + Medroxyprogesterone Acetate	Yes	Yes	
265	Levonorgestrel-Releasing Implant (Subdermal)	No	Yes	
266	Etonogestrel-Releasing Implant (Subdermal)	No	Yes	
	Vaccines and Sera			
267	BCG Vaccine	Yes	Yes	
268	Oral Polio Vaccine	Yes	Yes	
269	Injectable Polio Vaccine	Yes	Yes	
270	Hepatitis B Vaccine	Yes	Yes	
271	Measles Vaccine	Yes	Yes	
272	Tetanus Toxoid	Yes	Yes	
273	Pentavalent Vaccine	Yes	Yes	
274	Pneumococcal Vaccine	Yes	Yes	
275	Rota vaccine	Yes	Yes	
276	Anti-Rabies Vaccines (PVRV)	No	Yes	
277	Anti-Snake Venom Serum	No	Yes	
	Disposables/Antisepti	cs/ Disinfectants		
278	Syringe 1 ml (Disposable)	Yes	Yes	
279	Syringe 3 ml (Disposable)	Yes	Yes	
280	Syringe 5 ml (Disposable)	Yes	Yes	
281	Syringe 10 ml (Disposable)	Yes	Yes	
282	Syringe 20 ml (Disposable)	Yes	Yes	
283	Syringe 50 ml (Disposable)	Yes	Yes	
284	IV Set	Yes	Yes	
285	Scalp Vein Set	Yes	Yes	
286	Volumetric Chamber (IV Burette)	Yes	Yes	

		Availability	/ (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital (C, D) / <100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
287	IV Cannula (18, 20,22 & 24G)	Yes	Yes
288	Adhesive Tape	Yes	Yes
289	Sterile Gauze Dressing	Yes	Yes
290	Paper tape	No	Yes
291	Antiseptic Lotion	Yes	Yes
292	Cotton Bandage (3", 4" & 6")	Yes	Yes
293	Absorbent Cotton Wool	Yes	Yes
294	Crepe Bandage	Yes	Yes
295	Examination Gloves (All sizes)	Yes	Yes
296	Sterile Surgical Gloves (All sizes)	Yes	Yes
297	Silk Sutures Sterile (2/0, 3/0, 4/0) with needle	Yes	Yes
298	Chromic Catgut Sterile Sutures (different sizes) with needle	Yes	Yes
299	Face Mask Disposable / Personal Protective Equipment	Yes	Yes
300	Blood Lancets	Yes	Yes
301	Slides	Yes	Yes
302	Endotracheal Tube (different sizes)	Yes	Yes
303	Nasogastric Tube (different sizes)	Yes	Yes
304	Resuscitator Bag with Mask	Yes	Yes
305	Disposable Airways (different sizes)	Yes	Yes
306	Clean Delivery Kits	Yes	Yes

Item mentioned in Blue font is critical to ensure essential interventions

C: Essential Equipment, Supplies and Furniture – PHC centre level facilities

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
		Emergency & Rou	tine	
1	First Aid box	Yes	Yes	Yes
2	Electric Oven	Yes	Yes	Yes
3	Beds with mattress	No	Yes	Yes
4	N95/ Surgical masks & Personal protective equipment	Yes	Yes	Yes
5	Emergency OT light	No	Yes	Yes
6	Oxygen Cylinder with flow- meter	Yes	Yes	Yes
7	Ambu Bag (Paediatric)	Yes	Yes	Yes
8	Ambu Bag (Adult)	Yes	Yes	Yes
9	Suction Machine Heavy Duty	Yes	Yes	Yes
10	Laryngoscope with 4 blades (Adult & Peds)	Yes	Yes	Yes
11	Endotracheal tubes (all sizes)	Yes	Yes	Yes
12	Oral Air Way (all sizes)	Yes	Yes	Yes
13	Resuscitation Trolley	Yes	Yes	Yes
14	Nebulizer	Yes	Yes	Yes
15	Stethoscope	Yes	Yes	Yes
16	BP Apparatus (Dial)	Yes	Yes	Yes
17	BP apparatus Mercury (Adult & Paeds)	Yes	Yes	Yes
18	Dressing Set for Ward	Yes	Yes	Yes
19	Thermometer Clinical / Infra-red	Yes	Yes	Yes (and Rectal)
20	Torch with batteries	Yes	Yes	Yes
21	Macintosh sheets	Yes	Yes	Yes
22	Drip stands	Yes	Yes	Yes
23	Instrument Trolley	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
	Gro	owth Monitoring / La	bour Room	
24	Soap and soap tray	Yes	Yes	Yes
25	Weighing machine (salter)	Yes	Yes	Yes
26	Weighing machine (Adult)	Yes	Yes	Yes
27	Weighing machine (tray)	Yes	Yes	Yes
28	Height-weight machine	Yes	Yes	Yes
29	ORT Corner	Yes	Yes	Yes
30	Feeding bowls, glasses & spoons	Yes	Yes	Yes
31	Plain Scissors	Yes	Yes	Yes
32	Demonstration table	No	No	Yes
33	Delivery table (Labour Room)	No	Yes	Yes
34	Delivery set (each contain) Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps 1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch	No	Yes	Yes
		D&C set (each Cor	ntain)	
35	Metallic Catheter Uterine Sound Sim's Speculum medium Set D&E Sponge Holders Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Bowl 10 inch Vulsellum 8 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
	Caes	arean Section Set (ea	ach Contain)	
36	Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Straight 8 inch Kocher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch Needle Holder 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Knife Holder 4 number Plain Forceps 7 inch Tooth Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Vacuum Suction Apparatus Baby Resuscitation Apparatus Adult weighing scale Electric Suction Machine Autoclave Fetal Heart Detector Obs/Gyne: General Set Dressing Set for Ward Eclampsia beds with railing Baby Intubation set Examination Couch with wooden stairs Mucus Extractor Neonatal Resuscitation Trolley Incubator Macintosh sheets Torch with batteries	No	No	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
		Inpatient (Beds/W	/ards)	
37	Bed with side table/locker	No	Yes	Yes
38	Electric Suction Machine	Yes	Yes	Yes
39	Electric Sterilizer Oven	Yes	Yes	Yes
40	Oxygen Cylinder with flowmeter and Stand	Yes	Yes	Yes
41	Stretcher	Yes	Yes	Yes
42	Examination Couch with wooden stairs	Yes	Yes	Yes
43	Wheelchair	Yes	Yes	Yes
44	Patient Screen	Yes	Yes	Yes
45	Air Ways (different sizes)	Yes	Yes	Yes
46	Suction Pump (Manual)	Yes	Yes	Yes
47	Drip Stand	Yes	Yes	Yes
			Procedure Room	Operation Theatre
48	Examination Couch with wooden stairs	No	Yes	No
49	Hydraulic Operation Table	No	No	Yes
50	OT Light	No	No	Yes
51	Gel for ultrasound	No	Yes	Yes
52	ECG machine and roll	No	Yes	Yes
53	Shadow less Lamps with 9 Illuminators	No	No	Yes
54	Anaesthesia machine with ventilator	No	No	Yes
55	Multi-parameter	No	No	Yes
56	McGill forceps	No	No	Yes
57	Patient Trolley	No	No	Yes
58	Oxygen Cylinder (large size with regulator)	No	No	Yes
59	Oxygen Cylinder (medium size with regulator)	No	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
60	Nitrous oxide cylinder with regulator	No	No	Yes
61	Instrument trolley	Yes	Yes	Yes
62	Dressing Drum (large size)	Yes	Yes	Yes
63	Stands for Dressing	Yes	Yes	Yes
64	Basin	Yes	Yes	Yes
65	Basin stands	Yes	Yes	Yes
66	Towel Clips	No	Yes	Yes
67	BP handle	No	Yes	Yes
68	BP Blades	No	Yes	Yes
69	Dissecting Forceps (Plain)	No	Yes	Yes
70	Needle Holder (Large size)	No	Yes	Yes
71	Sponge Holder Forceps (large)	No	Yes	Yes
72	Skin Retractor (small size)	No	Yes	Yes
73	Metallic Catheter (1-12)	No	Yes	Yes
74	Dilator Complete Set	No	Yes	Yes
75	Surgical Scissors (various size)	No	Yes	Yes
76	Proctoscope	No	Yes	Yes
77	Thames Splint V.S	No	Yes	Yes
78	Rubber Sheet	No	Yes	Yes
79	Scalpels 6"	No	Yes	Yes
80	Allis Forceps Long	No	Yes	Yes
81	Allis Forceps 6 inches	No	Yes	Yes
82	Chaetal Sterilize Forceps 10" long	No	Yes	Yes
83	Introducer for Catheter	No	Yes	Yes
84	Smith Homeostatic Forceps Curved	No	Yes	Yes
85	Arm Splint different sizes	No	Yes	Yes
86	Instrument Cabinet	No	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
87	Spotlight	No	Yes	Yes
88	Hand Scrub set with chemical	No	Yes	Yes
89	Thermometer	No	Yes	Yes
90	Laryngoscope adult/peds	No	Yes	Yes
91	Kidney Tray S.S	No	Yes	Yes
92	Stand for Drip	No	Yes	Yes
93	Bucket	No	Yes	Yes
94	Air Cushion (Rubber)	No	Yes	Yes
95	Gastric Tube	No	Yes	Yes
96	Macintosh sheets	Yes	Yes	Yes
97	Torch with batteries	Yes	Yes	Yes
98	Urine Collection Bags instrument trolley	No	Yes	Yes
99	Generator	No	Yes	Yes
100	Air-Conditioner (split 1.5 tons)	No	Yes	Yes
			Denta	l Unit
101	Dental Chair	No	Yes	Yes
102	Light	No	Yes	Yes
103	Torch with batteries	No	Yes	Yes
104	Hand piece unit	No	Yes	Yes
105	Suction	No	Yes	Yes
106	Compressor	No	Yes	Yes
107	Dental hand instruments (set)	No	Yes	Yes
108	Aseptic Trolley	No	Yes	Yes
109	Dental Autoclave	No	Yes	Yes
110	Amalgamator	No	Yes	Yes
111	Dental X-ray unit	No	Yes	Yes

			Availability (Yes/No)		
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)	
112	Intraoral X-ray film Processor	No	Yes	Yes	
113	X-ray view box	No	Yes	Yes	
114	Lead apron	No	Yes	Yes	
115	Ultrasonic Scalar	No	Yes	Yes	
116	Dental Operating stool	No	Yes	Yes	
117	Ultraviolet sterilizer	No	Yes	Yes	
		Lab Equipment and Reagents			
118	Centrifuge (Bench Top)	No	No	Yes	
119	Centrifuge Machine	No	No	Yes	
120	Stopwatch	No	Yes	Yes	
121	Ice Lined Refrigerator (ILR)	Yes	Yes	Yes	
122	Small refrigerator	Yes	Yes	Yes	
123	X-ray Machine	No	Yes	Yes	
124	Dark room accessories	No	Yes	Yes	
125	X-ray films (All Size)	No	Yes	Yes	
126	X-ray illuminator	No	Yes	Yes	
127	Needle cutter/ Safety Boxes	No	Yes	Yes	
128	Availability of Ultrasound & ECG Services	No	Yes	Yes	
129	Laboratory Chemicals	Yes	Yes	Yes	
130	Binocular Microscope	Yes	Yes	Yes	
131	Urine meter (bag)	Yes	Yes	Yes	
132	DLC Counter	Yes	Yes	Yes	
133	Haemocytometer	Yes	Yes	Yes	
134	ESR Racks	Yes	Yes	Yes	
135	ESR Pipettes	Yes	Yes	Yes	
136	Water Bath	Yes	Yes	Yes	
137	Centrifuge Tubes (Plastic)	No	Yes	Yes	
138	Centrifuge Tubes (Glass)	No	Yes	Yes	
139	Glass Pipettes various sizes corrected	No	Yes	Yes	

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
140	Jester Pipettes Fixed – various sizes	No	Yes	Yes
141	Jester Pipettes Adjustable – various sizes	Yes	Yes	Yes
142	Sputum collection containers	Yes	Yes	Yes
143	Urine collection containers	Yes	Yes	Yes
144	Test tubes including blood sample tubes	Yes	Yes	Yes
145	Test Tube Racks	Yes	Yes	Yes
146	Pipette Stands	Yes	Yes	Yes
147	Hemoglobinometer	Yes	Yes	Yes
148	Table lamp	No	Yes	Yes
149	Lancets (pack)	Yes	Yes	Yes
150	Tube Sealer	No	Yes	Yes
151	Blood grouping Viewing Box	No	Yes	Yes
152	Surgical Blades	No	Yes	Yes
153	Test Tube Holder	Yes	Yes	Yes
154	Baskets	No	Yes	Yes
155	Wooden Boxes	No	Yes	Yes
156	Hepatitis B & C and HIV AIDS Kits	No	Yes	Yes
157	Reagent	No	Yes	Yes
158	Gas Burner	Yes	Yes	Yes
159	Stainless-Steel Test-Tube Racks	No	Yes	Yes
160	Wooden Slides Box	Yes	Yes	Yes
161	Glucometer and sticks	Yes	Yes	Yes
162	Urine Testing kits	Yes	Yes	Yes
163	RDT for Malaria	Yes	Yes	Yes
		Linen		
164	Bedsheet	Yes	Yes	Yes
165	Pillow	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
166	Pillow cover	Yes	Yes	Yes
167	Towel (large and small)	Yes	Yes	Yes
168	Tablecloth	Yes	Yes	Yes
169	Blanket	Yes	Yes	Yes
170	Curtain	Yes	Yes	Yes
171	Dusting cloth	Yes	Yes	Yes
172	Blinds	Yes	Yes	Yes
173	Overcoat	Yes	Yes	Yes
174	Staff Uniform	Yes	Yes	Yes
		Transport		
175	Ambulance	Yes (in selected BHUs)	Yes	Yes
176	Jeep for field activities	No	No	Yes
177	Motorcycle for field activities	Yes	Yes	Yes
178	LHS vehicle	Yes	Yes	Yes
		Miscellaneous	•	
179	Office tables	Yes	Yes	Yes
180	Officer Chairs	Yes	Yes	Yes
181	Bench	Yes	Yes	Yes
182	Blinds, Curtains, Screens for privacy	Yes	Yes	Yes
183	Steel Almirah	Yes	Yes	Yes
184	Wooden File Racks	Yes	Yes	Yes
185	Four-Seater Chairs	Yes	Yes	Yes
186	Fog machine 60 litre	Yes	Yes	Yes
187	Spray pumps (2)	Yes (2)	Yes (4)	Yes (8)
188	Invertor AC	Yes (2 for patient waiting area)	Yes (3 for patient waiting area and labor room)	Yes (9 for patient waiting areas and Indoor and OT)
189	Facility board/s	Yes	Yes	Yes
190	Services availability board/s	Yes	Yes	Yes
191	Room name plates	Yes	Yes	Yes

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban)Nursing Home (Pvt)
192	Stationary and stationary items	Yes	Yes	Yes
193	Table set and Pens	Yes	Yes	Yes
194	Paper ream	Yes	Yes	Yes
195	Health education display in waiting areas	Yes	Yes	Yes
196	LCDs	Yes (1)	Yes (2)	Yes (6)
197	Protocol display and chart booklets in provider's rooms	Yes	Yes	Yes
198	Fire extinguisher	Yes	Yes	Yes
199	Gardening tools	Yes	Yes	Yes

Item mentioned in Blue font is critical to ensure essential interventions

D. Essential Equipment, Supplies and Furniture – at First Level Hospital

		Availability	/ (Yes/No)
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital (C, D) /<100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
	Emergency	and Routine	
1	First Aid box	Yes	Yes
2	Electric Oven	Yes	Yes
3	Beds with mattress	Yes	Yes
4	N95/ Surgical masks & Personal protective equipment	Yes	Yes
5	Emergency OT light	Yes	Yes
6	Torch with batteries	Yes	Yes
7	Oxygen Cylinder with flow- meter	Yes	Yes
8	Ambu Bag (Paediatric)	Yes	Yes
9	Ambu Bag (Adult)	Yes	Yes
10	Suction Machine Heavy Duty	Yes	Yes

		Availability (Yes/No)		
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital (C, D) /<100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
11	Laryngoscope with 4 blades (Adult & Peds)	Yes	Yes	
12	Endotracheal tubes (all sizes)	Yes	Yes	
13	Oral Air Way (all sizes)	Yes	Yes	
14	Resuscitation Trolley	Yes	Yes	
15	Nebulizer	Yes	Yes	
16	Stethoscope	Yes	Yes	
17	BP Apparatus (Dial)	Yes	Yes	
18	BP apparatus Mercury (Adult & Paeds)	Yes	Yes	
19	Dressing Set for Ward	Yes	Yes	
20	Thermometer Clinical	Yes	Yes	
21	Drip stands	Yes	Yes	
22	Instrument Trolley	Yes	Yes	
	Growth Monitor	ing / Labour Room		
23	Soap and soap tray	Yes	Yes	
24	Weighing machine (salter)	Yes	Yes	
25	Weighing machine (Adult)	Yes	Yes	
26	Weighing machine (tray)	Yes	Yes	
27	Height-weight machine	Yes	Yes	
28	ORT Corner	Yes	Yes	
29	Feeding bowls, glasses & spoons	Yes	Yes	
30	Plain Scissors	Yes	Yes	
31	Demonstration table	Yes	Yes	
32	Delivery table (Labour Room)	Yes	Yes	
33	Delivery set (each contain) Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps 1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch Macintosh sheets Torch with batteries	Yes	Yes	

		Availability (Yes/No)			
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital (C, D) /<100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital		
	D&C set (e	each Contain)			
34	Metallic Catheter Uterine Sound Sim's Speculum medium Set D&E Sponge Holders Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Bowl 10 inch Vulsellum 8 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries	Yes	Yes		
	Caesarean Section	on Set (each Contain)			
35	Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Straight 8 inch Kocher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch Needle Holder 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Knife Holder 4 number Plain Forceps 7 inch Tooth Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Vacuum Suction Apparatus Baby Resuscitation Apparatus Adult weighing scale Electric Suction Machine Autoclave Fetal Heart Detector	Yes	Yes		

			Availabilit	y (Yes/No)		
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Hea Hospital (C bedded Priva	C, D) /<100	District Headquarte Hospital (A, B) / >100 bedded Private Hospital		
	Obs/Gyne: General Set Dressing Set for Ward Eclampsia beds with railing Baby Intubation set Examination Couch with wooden stairs Mucus Extractor Neonatal Resuscitation Trolley Incubator Macintosh sheets Torch with batteries					
Inpatient (Beds/Wards)						
36	Bed with side table/locker	Ye	es	Ye	es	
37	Electric Suction Machine	Ye	es	Yes		
38	Electric Sterilizer Oven	Yes		Yes		
39	Oxygen Cylinder with flowmeter and Stand	Ye	Yes		Yes	
40	Stretcher	Ye	es	Yes		
41	Examination Couch with wooden stairs	Ye	es	Yes		
42	Wheelchair	Ye	es	Yes		
43	Patient Screen	Ye	es	Yes		
44	Air Ways (different sizes)	Ye	es	Yes		
45	Suction Pump (Manual)	Ye	es	Ye	es	
46	Drip Stand	Ye	es	Ye	es	
		Procedure Room	Operation Theatre	Procedure Room	Operation Theatre	
47	Examination Couch with wooden stairs	Yes	Yes	Yes	No	
48	Hydraulic Operation Table	No	Yes	No	Yes	
49	OT Light	Yes	Yes	Yes	Yes	
50	Gel for ultrasound	Yes	Yes	Yes	Yes	
51	ECG machine and roll	Yes	Yes	Yes	Yes	
52	Shadow less Lamps with 9 Illuminators	No	Yes	Yes	Yes	
53	Anaesthesia machine with ventilator	No	Yes	Yes	Yes	
54	Multi-parameter	No	Yes	Yes	Yes	

			Availability	y (Yes/No)	
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Hea Hospital (C bedded Priva	C, D) /<100	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
55	McGill forceps	Yes	Yes	Yes	Yes
56	Patient Trolley	Yes	Yes	Yes	Yes
57	Oxygen Cylinder (large size with regulator)	No	Yes	Yes	Yes
58	Oxygen Cylinder (medium size with regulator)	Yes	Yes	Yes	Yes
59	Nitrous oxide cylinder with regulator	Yes	Yes	Yes	Yes
60	Instrument trolley	Yes	Yes	Yes	Yes
61	Dressing Drum (large size)	Yes	Yes	Yes	Yes
62	Stands for Dressing	Yes	Yes	Yes	Yes
63	Basin	Yes	Yes	Yes	Yes
64	Basin stands	Yes	Yes	Yes	Yes
65	Towel Clips	Yes	Yes	Yes	Yes
66	BP handle	Yes	Yes	Yes	Yes
67	BP Blades	Yes	Yes	Yes	Yes
68	Dissecting Forceps (Plain)	Yes	Yes	Yes	Yes
69	Needle Holder (Large size)	Yes	Yes	Yes	Yes
70	Sponge Holder Forceps (large)	Yes	Yes	Yes	Yes
71	Skin Retractor (small size)	Yes	Yes	Yes	Yes
72	Metallic Catheter (1-12)	Yes	Yes	Yes	Yes
73	Dilator Complete Set	Yes	Yes	Yes	Yes
74	Surgical Scissors (various size)	Yes	Yes	Yes	Yes
75	Proctoscope	Yes	Yes	Yes	Yes
76	Thames Splint V.S	Yes	Yes	Yes	Yes
77	Rubber Sheet	Yes	Yes	Yes	Yes
78	Scalpels 6"	Yes	Yes	Yes	Yes
79	Allis Forceps Long	Yes	Yes	Yes	Yes
80	Allis Forceps 6 inches	Yes	Yes	Yes	Yes
81	Chaetal Sterilize Forceps 10" long	Yes	Yes	Yes	Yes
82	Introducer for Catheter	Yes	Yes	Yes	Yes

			Availability	(Yes/No)	
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Hea Hospital (C bedded Priva	C, D) /<100	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
83	Smith Homeostatic Forceps Curved	Yes	Yes	Yes	Yes
84	Arm Splint different sizes	Yes	Yes	Yes	Yes
85	Instrument Cabinet	Yes	Yes	Yes	Yes
86	Spotlight	Yes	Yes	Yes	Yes
87	Hand Scrub set with chemical	Yes	Yes	Yes	Yes
88	Thermometer	Yes	Yes	Yes	Yes
89	Laryngoscope adult/peds	Yes	Yes	Yes	Yes
90	Kidney Tray S.S	Yes	Yes	Yes	Yes
91	Stand for Drip	Yes	Yes	Yes	Yes
92	Bucket	Yes	Yes	Yes	Yes
93	Air Cushion (Rubber)	Yes	Yes	Yes	Yes
94	Macintosh sheets	Yes	Yes	Yes	Yes
95	Torch with batteries	Yes	Yes	Yes	Yes
96	Gastric Tube	Yes	Yes	Yes	Yes
97	Urine Collection Bags instrument trolley	Yes	Yes	Yes	Yes
98	Generator	No	Yes	Yes	Yes
99	Air-Conditioner (split 1.5 tons)	Yes	Yes	Yes	Yes
	Dent	al Unit			
100	Dental Chair	Ye	es	Ye	es
101	Light	Ye	es	Ye	es
102	Torch with batteries	Ye	es	Ye	es
103	Hand piece unit	Ye	es	Ye	es
104	Suction	Ye	es	Ye	es
105	Compressor	Ye	es	Ye	es
106	Dental hand instruments (set)	Ye	es	Ye	es
107	Aseptic Trolley	Ye	es	Ye	es
108	Dental Autoclave	Yes		Ye	es
109	Amalgamator	No		Ye	es
110	Dental X-ray unit	Yes		Ye	es
111	Intraoral X-ray film Processor	N	0	Ye	es
112	X-ray view box	N	0	Ye	es
113	Lead apron	Ye	es	Ye	es

		Availability	(Yes/No)
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital (C, D) /<100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital
114	Ultrasonic Scalar	No	Yes
115	Dental Operating stool	Yes	Yes
116	Ultraviolet sterilizer	No	Yes
	Lab Equipme	nt and Reagents	
117	Centrifuge (Bench Top)	Yes	No
118	Centrifuge Machine	Yes	No
119	Stopwatch	Yes	Yes
120	Ice Lined Refrigerator (ILR)	Yes	Yes
121	Small refrigerator	Yes	Yes
122	X-ray Machine	Yes	Yes
123	Dark room accessories	Yes	Yes
124	X-ray films (All Size)	Yes	Yes
125	X-ray illuminator	Yes	Yes
126	Needle cutter/ Safety Boxes	Yes	Yes
127	Availability of Ultrasound & ECG Services	Yes	Yes
128	Laboratory Chemicals	Yes	Yes
129	Binocular Microscope	Yes	Yes
130	Urine meter (bag)	Yes	Yes
131	DLC Counter	Yes	Yes
132	Haemocytometer	Yes	Yes
133	ESR Racks	Yes	Yes
134	ESR Pipettes	Yes	Yes
135	Water Bath	Yes	Yes
136	Centrifuge Tubes (Plastic)	Yes	Yes
137	Centrifuge Tubes (Glass)	Yes	Yes
138	Glass Pipettes various sizes corrected	Yes	Yes
139	Jester Pipettes Fixed – various sizes	Yes	Yes
140	Jester Pipettes Adjustable – various sizes	Yes	Yes
141	Sputum collection containers	Yes	Yes
142	Urine collection containers	Yes	Yes
143	Test tubes including blood sample tubes	Yes	Yes

	Equipment/Supplies/ Furniture	Availability (Yes/No)		
Sr. No.		Tehsil Headquarter Hospital (C, D) /<100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital	
144	Test Tube Racks	Yes	Yes	
145	Pipette Stands	Yes	Yes	
146	Hemoglobinometer	Yes	Yes	
147	Table lamp	Yes	Yes	
148	Lancets (pack)	Yes	Yes	
149	Tube Sealer	No	Yes	
150	Blood grouping Viewing Box	No	Yes	
151	Surgical Blades	No	Yes	
152	Test Tube Holder	Yes	Yes	
153	Baskets	No	Yes	
154	Wooden Boxes	No	Yes	
155	Hepatitis B & C and HIV AIDS Kits	Yes	Yes	
156	Reagent	No	Yes	
157	Gas Burner	Yes	Yes	
158	Stainless-Steel Test-Tube Racks	No	Yes	
159	Wooden Slides Box	Yes	Yes	
160	Glucometer and sticks	Yes	Yes	
161	Urine Testing kits	Yes	Yes	
162	RDT for Malaria	Yes	Yes	
	Li	nen		
163	Bedsheet	Yes	Yes	
164	Pillow	Yes	Yes	
165	Pillow cover	Yes	Yes	
166	Towel (large and small)	Yes	Yes	
167	Tablecloth	Yes	Yes	
168	Blanket	Yes	Yes	
169	Curtain	Yes	Yes	
170	Dusting cloth	Yes	Yes	
171	Blinds	Yes	Yes	
172	Overcoat	Yes	Yes	
173	Staff Uniform	Yes	Yes	

		Availability (Yes/No)					
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital (C, D) /<100 bedded Private Hospital	District Headquarter Hospital (A, B) / >100 bedded Private Hospital				
Transport							
174	Ambulance	Yes	Yes				
175	Jeep for field activities	No	No				
176	Motorcycle for field activities	Yes	Yes				
177	LHS Vehicles (If LHWP functional at THQ/DHQ hospital)	Yes	Yes				
Furniture							
178	Office tables	Yes	Yes				
179	Officer Chairs	Yes	Yes				
180	Bench	Yes	Yes				
181	Blinds, Curtains, Screens for privacy	Yes	Yes				
182	Steel Almirah	Yes	Yes				
183	Wooden File Racks	Yes	Yes				
184	Four-Seater Chairs	Yes	Yes				
185	Fog machine 60 litre	Yes	Yes				
186	Spray pumps (2)	Yes (8)	Yes (16)				
187	Invertor AC	Yes					
188	Facility board/s		Yes				
189	Services availability board/s	Yes	Yes				
190	Room name plates	Yes	Yes				
191	Stationary and stationary items	Yes	Yes				
192	Table set and Pens	Yes	Yes				
193	Paper ream	Yes	Yes				
194	Health education display in waiting areas	Yes	Yes				
195	LCDs	Yes	Yes				
196	Protocol display & chart booklets in provider's rooms	Yes	Yes				
197	Fire extinguisher	Yes	Yes				
198	Gardening tools	Yes	Yes				

Item mentioned in Blue font is critical to ensure essential interventions

ESSENTIAL PACKAGE OF HEALTH SERVICES KHYBER PAKHTUNKHWA













UNIVERSAL HEALTH COVERAGE-BENEFIT PACKAGE KHYBER PAKHTUNKHWA