

Universal Health Coverage Benefit Package of

BALOCHISTAN

ESSENTIAL PACKAGE OF HEALTH SERVICES

WITH LOCALIZED EVIDENCE

February 2022



Health Department

GOVERNMENT OF BALOCHISTAN





BALOCHISTAN

ESSENTIAL PACKAGE OF HEALTH SERVICES

with Localized Evidence





@ 3rd of February 2022

Essential Package of Health Services with localized evidence UHC Benefit Package of Balochistan

Endorsed by:

 ${\bf Balochistan\ UHC\ Steering\ Committee\ under\ the\ chair\ of\ Health\ Minister,\ Balochistan}$

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For more information, please visit:

Web: http://balochistan.gov.pk/departments/health/ https://www.facebook.com/healthbalochistan/ https://twitter.com/healthdeptblo?lang=en 'The Government of Balochistan reaffirms its commitment of achieving Universal Health Coverage based on the principle that all individuals and communities in the province have equitable access to their needed health care and in good quality, while ensuring improved health outcomes'



H.E. SAYED EHSAN SHAH

Minister of Health

Government of Balochistan

MESSAGE FROM HEALTH MINISTER

'Universal Health Coverage of the essential health services is the need of the hour for Balochistan. Balochistan has had a compromised health service delivery system due to low population density, nomadic population, and difficult terrain. Investing in health and reaching out to each member of our society is a responsibility that we feel very strongly about, and we would ensure all the efforts to take forward the cause of health of our people'

Health is fundamental to life and development. Let us be very clear that for far too long, health has not received the attention it deserves and requires, from our government. This has now changed. It has been an honour for the current Government of Balochistan to have undertaken the most ambitious health reform agenda of achieving Universal Health Coverage (UHC) for all the people of Balochistan.

The health reform agenda of Balochistan is a game changer event. Following the endorsement of a generic National Essential Package of Health Services (EPHS)/ UHC Benefit Package at the Inter-Ministerial Health & Population Council meeting held on 22 October 2020, Balochistan has completed the very complex and detailed exercise of developing a costed EPHS of Balochistan. For this, the technical team at the Health Department led by the Director General Health Services deserves commendation for the tremendous effort employed at reviewing; analysing, interpreting, and prioritizing evidence based best practices that have the greatest potential in making a significant dent in the health outcomes.



H.E. SAYED EHSAN SHAH

Health Minister

Government of Balochistan

The importance of this achievement cannot be overstated. It involved the very complex task of studying disease burden, identifying relevant health interventions, breaking down components of each intervention and then costing each intervention for Balochistan.

A series of consultations held with national and provincial levels experts was instrumental in reaching the goal of developing the UHC-BP for Balochistan. The package consists of interventions that have been prioritized after thorough deliberations and take into consideration the thin population spread and rugged terrain of the province, which makes healthcare service delivery much harder. The prioritized interventions offer the greatest potential in making a difference in the lives of the people of Balochistan. Delivery of quality health services, which are accessible to all, is the next step on the pathway towards achieving UHC.

This is easier said than done. The critical question is how we meet the challenge of delivering the prioritized interventions to the people. The answer lies in enhancing investment in health, efficiently. World over there is a growing consensus that human security is fundamental to a nation's prosperity and without good health, security will remain a distant dream. It is imperative that health funding be increased to deliver the quality and services of health care that are not only the need of our people but what they deserve. As their representative in the government, it is my duty to make all possible efforts in ensuring that health outcomes are improved significantly.

Implementation of any reform agenda can be difficult. However, this should not act as a deterrent rather it should provide the necessary motivation for us as a government, that we will do our best in making the implementation of EPHS for the people of Balochistan a success.

FOREWORD



Mr Noor-ul-Haq Baloch Secretary Health Government of Balochistan

Health service delivery in Balochistan, which has the largest land area within the country, is many folds challenging than the rest of Pakistan. This is primarily driven by the mountainous and desert topography, long uninhabited distances between villages, towns, and cities, scare water resources, challenging geostrategic environment, limited financial resources and a debilitating lack of skilled human resource for health.

The Health Department of Balochistan deserves praise for undertaking the health reform agenda for the province according to the vision of the Honourable Health Minister – Mr Sayed Ehsan Shah. Health Minister has been clear in relaying his wishes to the Universal Health Coverage technical committee regarding how the health reforms in the province are to be shaped. The vision is underpinned by the absolute necessity for implementing a package that is responsive to the actual needs of the people of Balochistan.

Therefore, the EPHS/ UHC-BP for Balochistan is based on a set of interventions that have been prioritized using local evidence of disease burden, costing and availability of health human resource. In the history of health sector reforms, the development of the package is perhaps the most important event of the last two decades. The interventions chosen in the package are the most cost effective in curtailing the largest magnitude of disease burden in the province.

The implementation of the EPHS is dependent on addressing the governance, finance, human resource, and service delivery challenges. There is no choice but to show unwavering resolve. A detailed monitoring and evaluation plan is necessary to ensure that progress is closely monitored, and remedial measures undertaken in a timely manner where required. The Government of Balochistan has committed that financial allocation for the EPHS will be ensured.

Skilled human resource for health has been a longstanding challenge for Balochistan. The rugged terrain and thinly scattered population in hard-to-reach areas has resulted in a chronically deficient health system in the periphery in terms of qualified human resource. It is expected that with the adoption and implementation of the EPHS, innovative approaches will result in address this deficiency.

It is the responsibility of the Health Department of Balochistan to make sure that the EPHS is successfully implemented in the province. In this regard the Health Department must enhance its efficiency and prepare to provide the requisite oversight, administrative guidance, and necessary support.

The UHC-BP Technical Committee led by the Director General Health Services - Dr Noor Mohammad Qazi has achieved an extremely important task with the finalization of the EPHS for Balochistan. I wish his team the best going forward with the implementation of the package.

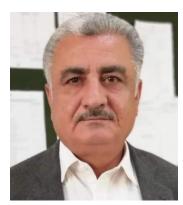
It is important that when it comes to addressing the health needs of the people of Balochistan, we adopt a unified approach do our very best in alleviating the suffering of our citizens.

ACKNOWLEDGEMENTS

Balochistan has remained significantly behind in delivering quality health care for the people of the province. Limited resources and a thinly stretched population have contributed to poor performing health indicators. This has been compounded by shortage of skilled human resource that has the requisite skills and the capacity to delivery healthcare for the people.

The adoption of the Universal Health Coverage (UHC) — Benefit Package (BP) for Balochistan is singularly the most important reform agenda presented by the Health Department in pursuit of provision of quality health for all.

The process of development of the Balochistan EPHS/ UHC-BP has comprised involvement of political, economic, intersectoral and technical domains. The vision for the Balochistan Health has been spearheaded by the HE Chief Minister — Mir Abdul Quddus



Dr Noor Mohammad QaziDirector General Health Services
Government of Balochistan

Bizenjo, whose government is focused on ensuring that quality healthcare becomes a reliable service for all the people of Balochistan.

I would be amiss not to acknowledge that the HE Health Minister – Sayed Ehsan Shah took personal interest in the finalization and endorsement of the Balochistan EPHS. Without his personal involvement this package would not have seen the light of day. H.E. Sayed Ehsan Shah support has not only been instrumental in attaining broad based political support within the government for this package but also for facilitating the availability of required resources for the completion of this task.

Secretary Health - Mr Noor-ul-Haq Baloch guided the administrative aspects and provided the necessary support for the formation of the UHC technical committee facilitating the availability of all members of the committee in all sessions and workshops held for discussing technical matters of the UHC-BP.

The Health Department, Balochistan is indebted to the Federal Ministry of National Health Services, Regulations and Coordination. The Director General (Health) - Dr Rana Mohammad Safdar has been always available to discuss all decision-making matters besides deputing the technical team at the Health Planning, System Strengthening & Information Analysis Unit (HPSIU) housed within the Ministry to the Health Department, Balochistan for the development of the package. The HPSIU team under the able leadership of Dr Malik Muhammad Safi, along with the technical lead at HPSIU - Dr Raza Zaidi, provided extensive support and made possible that the package was developed in a most timely fashion.

The Health Department, Balochistan has been supported in this endeavour by WHO Representative for Pakistan Dr Palitha Mahipala and the provincial WHO office. In addition, UNICEF country representative Ms. Aida Girma through UNICEF country and provincial office have also provided much needed support in finalizing the costed EPHS. The Department also acknowledges the technical assistance and critical support from Dr Ala Alwan at the DCP3 Secretariat based at LSHTM. The Department is also grateful for the valued technical support of the British High Commission and the US Agency for International Development.

The Balochistan UHC Technical Committee deserves high praise for showing their strong commitment towards this priority reform agenda. The Core team of the committee led by Dr Tahira Kamal and Dr Ahmad Baloch has played a critical role in developing and finalizing the EPHS document for Balochistan. The EPHS/ UHC-BP for Balochistan is the first step that has been taken on the road to better health for all. We resolve that we will do our best to continue the challenging journey ahead.

Contributions

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

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

Under guidance of

H.E. Sayed Ehsan Shah, Minister Health, Balochistan; and **Mr Noor-ul-Haq Baloch**, Secretary Health, Balochistan

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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 intersectoral 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-specific analysis of priorities considering country-specific cost structures, epidemiological needs, and national 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 decided not only to localize scientific evidence in the context of Balochistan province but also to develop a UHC Benefit Package of Balochistan.

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

- Overall, 49% (107/218) of the DCP3 recommended EUHC interventions and 77% (117/151) of the generic EPHS interventions are being currently implemented partially, out of which only 7% of EUHC and 10.5% of generic EPHS interventions are expected to be accessible to more than 50% of the health facilities in Balochistan;
- Out of the DCP3 recommended district level EUHC interventions, 48% (89/185) and out of the generic district level EPHS interventions 79% (93/117) are available partially in Balochistan. Only 7% of district EUHC interventions and 10% of generic district EPHS interventions are available in more than 50% of facilities of Balochistan;
- Non-communicable diseases and infectious 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 Sind:

- 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 Balochistan** 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 Balochistan, additional interventions related to Malaria were included for localization of evidence. These interventions are not part of the generic EPHS at national level.
- The Balochistan UHC Technical Working Group decided the baseline and year wise milestones for each proposed intervention. Year-wise targeted population for each intervention was defined using projected Balochistan data from the 2017 census, latest national/provincial/area surveys, burden of disease data for Balochistan 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 programme 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 Balochistan province.
- For the Balochistan 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 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 Balochistan to further analyse the evidence.

All evidence was reviewed and discussed in group work and then in a plenary. Later, evidence was used for prioritisation of health interventions for Balochistan EPHS. A total of 132 interventions were prioritized for five platforms including 96 interventions for District EPHS.

Platform	Immediate Priority Interventions	Unit Cost (\$)/ person/ year (inclusive of health system cost)	DALYs Avert
Community level	19	4.22	929,667
2. PHC centre level	39	3.22	242,123
First level hospital	38	12.46	162,027
District EPHS	96	19.90	1,333,817
4. Tertiary hospital	25	4.40	83,000
5. Population level	11	4.63	++
All five platforms	132	28.93	1,416,817 ++

- District EPHS included 96 interventions as immediate priority for EPHS, out of which 19 were at Community level, 39 at PHC centre level and 38 at First level hospital;
- An addition of 10 interventions through special initiatives will cost US\$2.61/ person/ year and will avert additional 22,533 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, Balochistan to regularly localize and generate evidence for inclusion and exclusion of interventions in future.

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Acronyms

AIDS Acquired Immune Deficiency Syndrome

ARV Anti-Retro-Viral therapy

BCC Behaviour Change Communication

BEMONC Basic Emergency Obstetrical and Neonatal Care

BMGF Bill & Malinda Gates Foundation

BOD Burden of Disease

CEMONC Comprehensive Emergency Obstetrical and Neonatal Care

CVD Cardiovascular Diseases
DALYs Disability Adjusted Life Years

DCP3 Disease Control Priorities – Edition 3
ECD Early Childhood Development
EPHS Essential Package of Health Services
EUHC Essential Universal Health Coverage

FLH First Level Hospital

GAVI Global Alliance for Vaccine and Immunization
GFATM Global Fund to fight against AIDS, TB & Malaria

GPEI Global Polio Eradication Initiative
HIV Human Immuno-Deficiency Virus
HPN Health Population & Nutrition
HPV Human Papilloma Virus

ICER Incremental Cost Effectiveness Ratio

ICPD International Conference on Population & Development

IPP Inter-sectoral Prevention Policies
IHR International Health Regulations

IMCI Integrated Management of Childhood Illnesses

IUCD Intra Uterine Contraceptive Device

JEE Joint External Evaluation

LSHTM London School for Hygiene and Tropical Medicine

MCH Maternal and Child Health
MDGs Millennium Development Goals

MDR Multi Drug Resistance

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

NAC National Advisory Committee NTD Neglected Tropical Diseases

PHC Primary Health Care

PPHI People's Primary Healthcare Initiative

RDT Rapid Diagnostic Test
RH Reproductive Health

SDGs Sustainable Development Goals
STI Sexually Transmitted Infections

TB Tuberculosis
TH Tertiary Hospital
TOR Terms of Reference
TRF Technical Resource Facility
UHC Universal Health Coverage

UHC BP Universal Health Coverage Benefit Package

UNIFPA United Nations Population Fund UNICEF United Nations Children Fund

USAID United States Agency for International Development

WASH Water, Sanitation & Hygiene

WB World Bank

WHO World Health Organization

BALOCHISTAN ESSENTIAL PACKAGE OF HEALTH SERVICES

INTRODUCTION

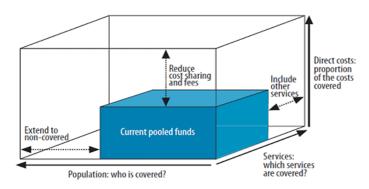
The Agenda for Sustainable Development was endorsed by the United Nations as an integrated global commitment to chart a new era for development and poverty reduction during the period 2015-2030. In this agenda, Universal Health Coverage (UHC) became the key outcome under the health goal of the Sustainable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

The National Health Vision (2016) and Balochistan Health Strategy (2018-25) 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.

Balochistan Health Strategy vision is:

'Well and healthy individuals, families and communities in all over Balochistan, whose health needs especially of the poor, underserved and vulnerable receive attention without facing financial hardship and that health is in all policies of other sectors in the province'

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 the first country in the world to use the global review of evidence by the DCP3 to inform the definition of its UHC benefit package/ essential package of health services (EPHS).

The Parliamentary Secretary for Health, Balochistan not only endorsed the generic National EPHS in the Inter-Ministerial Health & Population Council meeting held on 22nd of October 2020 but also decided along with other provincial/area Ministers of Health to localize the scientific evidence in the context of province and accordingly re-prioritize health interventions. Thus, the priority actions for

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¹ http://dcp-3.org/

the Health Department, Balochistan is to develop a 'UHC Benefit Package' consisting of i) Essential Package of Health Services (EPHS) and ii) Inter-sectoral Interventions/policies.

The Health Department, Balochistan in partnership with the DCP3 secretariat (with funding of Bill & Malinda Gates Foundation (BMGF)), World Health Organization (WHO), United Nations Children Fund (UNICEF), British High Commission, US Agency for International Development and the Ministry of National Health Services, Regulations & Coordination (NHSR&C), has ensured comprehensive review of the localized evidence of Balochistan to inform the prioritization of health interventions at five platforms for inclusion in the EPHS/ UHC Benefit Package. Evidence was collated on burden of disease in Balochistan, 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 non-health outcomes such as equity and financial protection.

The objective of the Balochistan EPHS is to define which services are to be covered through <u>five</u> <u>different platforms</u> (both through public and private sector) for ALL people in Balochistan:

- i) Community level
- ii) Primary healthcare centre level
- iii) First level hospital
- iv) Tertiary hospital
- v) Population level

Interventions at community, PHC centre and First level hospital are clubbed as the <u>District EPHS</u>, whereas interventions at tertiary hospital, population level and selected programmatic reforms are to be managed and executed 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 Balochistan by mitigating risk factors.

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

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



The evidence has been intensely reviewed by the technical experts and stakeholders, followed by critical review at the UHC Technical Working Group of Balochistan 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, 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 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. Most 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, 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 smallpox 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. Many 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 few 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 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 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 community and primary healthcare facilities. 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. Balochistan has thus developed its own provincial EPHS based on localized evidence.

UHC SITUATION IN BALOCHISTAN

Balochistan 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 a country's population. Universal health coverage is an investment in human capital and a foundational driver of inclusive and sustainable economic growth and development.

Balochistan is the largest province in terms of land area but has the least population density with difficult terrain. Despite being central for the China Pakistan Economic Corridor (CPEC), it has one of the weakest health systems in Pakistan and presenting a dismal picture of the healthcare system that doesn't meet the demands of its citizens for standard and quality health treatment.

The trend analysis of Balochistan UHC service coverage index indicate a positive trajectory but very low score - 27.1 in 2015 to 35 in 2019. The projected population of Balochistan province in 2021 is 13.9 million with more than 1.95 million children under 5 years of age and 2.93 million childbearing age women. The birth rate is estimated as 31.5 per 1000 population with total fertility rate is 4 children per women in 2017-18. The life expectancy is 63.3 years (62 years for males and 64 years for females²) with projected growth rate 2.45. However, the death rate is 7 per 1000 population.

The Balochistan is undergoing the epidemiological transition from communicable conditions to the emerging non-communicable conditions and injuries. Burden of the communicable, maternal, child and nutritional group, which was 67.3% (43,819 DALYs lost per 100,000 population) in 2000, has gone down to 60% (30,079 DALYs lost per 100,000 population) in 2019. However, the burden of non-communicable diseases (NCD) group which was 27.7% (18,091 DALYs lost per 100,000 population) of the total burden in the year 2000 has increased its share to 33% (16,449 DALYs lost per 100,000 population) in 2019. The share of burden of injuries increased from 4.8% (3,176 DALYs lost per 100,000 population) to 6.24% (3,100 DALYs lost per 100,000 population) over the same period.

The overall sexual and reproductive health in Balochistan is assessed by maternal mortality ratio and has reached the level of 298/100,000 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 38% and the institutional deliveries 35% in 2017-18⁴. However, there are serious equity concerns as quality services are not available in many hard-to-reach areas.

Unfortunately, there has been no progress in contraceptive prevalence rate with only 14 percent 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 Balochistan is 34/1000 live births. Under-five mortality is 78 / 1000 live births, and the infant mortality is as high as

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)

66/ 1,000 live births in 2017-18. The DPT/ Penta III coverage is only 37%. Balochistan province is facing the severe challenge of malnutrition, the highest number of under five children with stunting is observed in Balochistan accounting 47.4% of U5 children, however, 18.3% are wasted. The women of reproductive age (15-49 years) with anemia are constituting 49.7%, whereas the prevalence of anemia among under five children is 59.8%.

In 2019, the incidence of Tuberculosis is 211/100,000 population and the Multi Drug Resistance cases (incidence rate) 13.4/ 100,000 population. The total notified cases are 11,205 with case detection rate of only 33% and treatment success rate 93%. The prevalence rate of HIV & AIDS in Balochistan is 4.77 per 100,000 population with the estimated people living with HIV & AIDS are 4,783 and the registered cases 1228. However, the anti-retroviral therapy is 17% in Balochistan. For Hepatitis B and C, blood transfusion, therapeutic injections, syringe use and hospitalization are the main risk factors for disease transmission in the province.

According to Balochistan burden of disease data for 2019, the prevalence of Hepatitis B is 113.7 per 100,000 people, while the prevalence of Hepatitis C is 10.7 per 100,000 people. The high endemic districts for Malaria are in Balochistan with Annual Parasitic Incidence of 7.68 and the number of new cases is 0.66 million in 2019.

The shift of burden of disease from communicable to non-communicable diseases accounting for 41.85% of total deaths as reported by Global Burden of disease data for Balochistan in 2019. Among NCDs, the cardiovascular disease accounts for 16.1% of total deaths and the number of cases with stroke and ischemic heart disease are 0.069 million and 0.156 million respectively. The second largest non-communicable group is cancers and neoplasms and are responsible for 8.75% of total deaths. The number of people living with mental health disorders are 1.48 million. Whereas with diabetes and the chronic liver disorders are 0.40 million and 1.97 million respectively.

Balochistan 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 0.63 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 to achieve UHC.

RATIONALE

The Health Department, Balochistan 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 in a vast geographical area which has very thin population density. These factors and other socio-economic factors result in very poor health outcomes.

The SDG baseline in 2015 for UHC coverage index in Balochistan was estimated to be 27.1 (35.0 in 2019), which was much less than the average of sub-Saharan Africa at 42⁵ and at 40 for Pakistan. 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 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.

AIM AND PRINCIPLES

The UHC Essential Package of Health Services is a policy framework for strategic 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 officials in government and other 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 BALOCHISTAN EPHS

After the development of the generic UHC Benefit Package for Pakistan/ EPHS, 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 and the service delivery issues. Consequently, it is important that each province keeping in view the local context, deliberate and prioritize interventions.

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

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

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

The Health Department, Balochistan decided to opt for the option (b) of using Balochistan specific 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, Balochistan so that evidence is generated/collated on a regular basis and that the Health Department, Balochistan will make required changes in the EPHS in future if required. Later on, following steps were followed for the development of Balochistan 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, Balochistan, while being supported by the M/o NHSR&C, Partners and the UHC BP National Advisory Committee (NAC). The Health Department, notified the Balochistan UHC Technical Working Group under the chairmanship of Director General Health Services, Balochistan and with representation of different constituencies with following Terms of Reference (TOR)⁶:

- The UHC Technical Working Group will act as Balochistan 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;
- 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 Plan of the province/area;
- Monitor the progress of implementation of UHC related interventions and suggest recommendations for the consideration of Health Department;
- The Balochistan UHC Technical Committee may form sub-committees as per need.

The government of Balochistan also notified Balochistan UHC Steering Committee under the chair of Additional Chief Secretary, Balochistan and with members from Departments of Finance, Planning & Development and Health with following TOR:

- Provide strategic direction to oversee and governing all Balochistan UHC-Benefit activities;
- Drive the use of UHC-Benefit Package in policy and planning;
- Ensure stakeholders involvement in the Balochistan UHC-Benefit Package process;
- Review and approve the recommendations of the Balochistan UHC Technical Committee;
- Guide and approve work plans presented by the Balochistan UHC Technical Committee;

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⁶ Provincial Health Directorate, Balochistan; Office Order No 12-Steno/26388/94 dated 26 June 2021

- 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, Balochistan 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 Balochistan UHC Benefit Package.

Step 2: Provincial Sensitization, Review and Localisation of Evidence

After initial meeting with the Ministry of NHSR&C in March 2021, first formal consultative workshop of the UHC Technical Committee was held on 22-23rd of April 2021 to sensitize the stakeholders from Balochistan on the process, appraise them of the UHC situation in the province, review the availability of essential health services and set baseline, milestones, and targets for all EPHS proposed interventions for Balochistan. Considering the high incidence of malaria in the province, more (120) interventions were reviewed in Balochistan. Some of malaria related interventions were not part of the generic EPHS at national level.

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

- 1. Burden of Disease;
- 2. Effectiveness of intervention;
- 3. Feasibility;
- 4. Cost-effectiveness;
- 5. Equity;
- 6. Budget impact;
- 7. Financial risk protection; and
- 8. Social and economic impact.

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

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

- For Balochistan EPHS development, it was decided to use the national level 'Description of Interventions' as such, which were developed through consensus among stakeholders, using the latest guidelines and manuals.
- Burden of Disease in Balochistan: With availability of burden of disease data for Balochistan, it was decided to apply the 2019 date, instead of 2017 burden of disease data at national level used in 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 Balochistan UHC Technical Committee as a group decided baselines, targets and year wise milestones for each proposed intervention. Year-wise targeted population for each intervention was defined using projected Balochistan 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 identified through department's programme. Year-wise milestones were kept realistic as the same has significant impact on the overall unit cost.

- 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 Balochistan EPHS since the technical specifications of the interventions remain the same. However, staff salaries were adjusted to the pay scales in Balochistan, and annual milestones defined by the Balochistan UHC technical committee were used to make year-wise cost projections. In addition, an inflation rate 8% was also added in forthcoming years.
- 5. **Incremental cost-effectiveness ratio (ICER):** For the Balochistan 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 stepwise process along with assessment of quality of data.
- 6. **Health Interventions Prioritization Tool (Hiptool):**⁷ is a web-based digital tool developed by the University College of London 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 Balochistan to further analyse the evidence.

The next step after the generation of localized evidence / investment cascade, was a three-days' workshop held on 27-29th of April 2021, involving Balochistan UHC Technical Committee to deliberate and prioritise interventions for Balochistan EPHS. The Balochistan UHC Technical Committee deliberated to prioritize interventions into **immediate**, **special** and **high** (but not immediate) priority categories, considering the fiscal space and availability of resources for the implementation.

Prioritized interventions were drafted as EPHS document for final review and endorsement of the Balochistan UHC Steering Committee. The Balochistan UHC Steering Committee under the chair of Health Minister, Balochistan met on 3 February 2022, reviewed, and endorsed the EPHS document finally. The meeting was attended by the Secretary P&D, Secretary Finance, Secretary S&GAD and DGHS, Balochistan.

⁷ Health Interventions Prioritization Tool Working Group. http://hiptool.org/

REVIEW OF ESSENTIAL HEALTH SERVICES IN BALOCHISTAN

The review was carried out by the Health Department, Balochistan 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 consensus among 61 participants and gives a glimpse of availability of health services in the province. However, there would be significant variation in service provision not only among districts of Balochistan but also worse coverage in hard to reach/ socio-economically poor districts.

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

Platform	No of EUHC	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
Community	59	67%	17%	11%	5%	0%
PHC Centre	68	50%	36%	6%	7%	0%
First Level Hospital	58	38%	40%	14%	7%	2%
Tertiary Hospital	20	25%	36%	29%	10%	0%
Population	13	75%	22%	3%	0%	0%

Cluster	No of EUHC	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
RMNCH/Age related	59	36%	49%	10%	5%	0%
Infectious diseases	51	67%	24%	7%	2%	0%
NCD and Injuries	52	60%	23%	11%	6%	0%
Services access	56	43%	26%	17%	12%	2%
TOTAL	218	51%	31%	11%	6%	1%

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

Platform	No of EPHS	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
Community	28	24%	46%	19%	11%	0%
PHC Centre	43	23%	51%	12%	14%	0%
First Level Hospital	46	15%	60%	18%	4%	2%
Tertiary Hospital	22	9%	42%	31%	17%	1%
Population	12	65%	32%	3%	0%	0%

Cluster	No of EPHS	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
RMNCH/Age related	53	17%	62%	13%	8%	0%
Infectious diseases	30	41%	44%	12%	3%	0%
NCD and Injuries	29	28%	41%	20%	10%	0%
Services access	39	11%	45%	24%	17%	3%
TOTAL	151	24%	48%	17%	10%	1%

Summary results of the review indicate that:

- Overall, 49% (107/218) of the DCP3 recommended EUHC interventions and 77% (117/151) of the generic EPHS interventions are being currently implemented partially, out of which only 7% of EUHC and 10.5% of generic EPHS interventions are expected to be accessible to more than 50% of the health facilities in Balochistan:
- Out of the DCP3 recommended district level EUHC interventions, 48% (89/185) and out of the generic district level EPHS interventions 79% (93/117) are available partially in Balochistan. Only 7% of district EUHC interventions and 10% of generic district EPHS interventions are available in more than 50% of facilities of Balochistan;
- Out of the DCP3 recommended community level EUHC interventions, 32% (19/59) and out of the generic community level EPHS interventions 75% (21/28) are available partially in Balochistan. However, only 5% of community level EUHC interventions and 11% of generic community EPHS interventions are available in more than 50% of communities;
- Out of the DCP3 recommended PHC centre level EUHC interventions, 50% (34/68) and out of the generic PHC centre level EPHS interventions 77% (33/43) are available partially in Balochistan. However, only 7% of PHC level EUHC interventions and 14% of generic PHC centre EPHS interventions are available in more than 50% of facilities;
- Out of the DCP3 recommended FLH level EUHC interventions, 62% (36/58) and out of the generic FLH level EPHS interventions 85% (39/46) are available partially in Balochistan. However, only 9% of FLH level EUHC interventions and 6.5% of generic FLH EPHS interventions are available in more than 50% of facilities;
- Out of the DCP3 recommended TH level EUHC interventions, 75% (15/20) and out of the generic TH level EPHS interventions 90% (20/22) are available partially in Balochistan. However, only 10% of TH level EUHC interventions and 18% of generic TH EPHS interventions are available in more than 50% of health facilities;
- Out of the DCP3 recommended Population level EUHC interventions, 23% (3/13) and out of the generic population level EPHS interventions 33% (4/12) are available partially in Balochistan. However, only 0% of Population level EUHC interventions and 0% 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 38/59 (64.4%), for infectious diseases cluster 17/51 (33%), for NCD & injuries cluster 21/52 (40%) and for health services cluster 32/56 (57%). Non-communicable diseases and infectious 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 44/53 (83%), for infectious diseases cluster 18/30 (60%), for NCD & injuries cluster 21/29 (72%) and for health services cluster 35/39 (90%). Again, Non-communicable diseases and infectious diseases clusters need more attention.

The review concludes that

- Current services are not sufficient to make significant progress towards achieving UHC.
 While developing & implementing Balochistan EPHS, priority should be given first to scale up those cost-effective services which are being implemented with limited coverage;
- Two platforms community based and PHC centre level should have scaled up services to avert maximum burden of disease. A more integrated approach should be adopted as implementation of selected interventions at community and PHC level in Balochistan;
- Where services are included in the package they should be provided with the appropriate technology and to a high quality and coverage;
- EPHS should be a live document and should be reviewed regularly by stakeholders and updated as improved evidence on the costs and health impact of these interventions becomes available;
- UHC benefit package should consider inter-sectoral interventions, which are mostly cost-effective and have long lasting impact on the health outcomes.

AN OUTLINE OF BALOCHISTAN 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 narrow⁸. Although a gradual increase in health expenditure has been reported in recent years, health expenditure remains low in Balochistan 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\$ 52 in 2017-18, of which public spending on health was around US\$ 21,9 much lower 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 consider 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.

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

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

Platform	Number of DCP3 recommended Interventions	High Priority Interventions (with split)	Immediate Priority Interventions (with split)	Interventions through Special Initiatives
 Community level 	59	28	19	6
2. PHC centre level	68	45	39	2
First level hospital	58	47	38	2
District EPHS	185	120	96	10
4. Tertiary hospital	20	25	25	-
5. Population level	13	11	11	-
All Five Platforms	218	156	132	10

⁸ WHO. https://www.who.int/health_financing/topics/fiscal-space/why-it-matter/en/

 $^{^{9}}$ Federal Bureau of Statistics; National Health Accounts 2017-18

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

Platform	Immediate Priority Interventions	Unit Cost (\$)/ person/ year (inclusive of health system cost)	DALYs Avert
Community level	19	4.22	929,667
2. PHC centre level	39	3.22	242,123
First level hospital	38	12.46	162,027
District EPHS	96	19.90	1,333,817
4. Tertiary hospital	25	4.40	83,000
5. Population level	11	4.63	++
All five platforms	132	28.93	1,416,817 ++

An addition of 10 interventions through special initiatives will cost US\$2.61/ person/ year and will avert additional 22,533 DALYs through District EPHS. DALYs averted through population level interventions are difficult to measure but are expected to be highly cost-effective. 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 – 106 interventions (Immediate & Special)	
Year	Unit Cost (\$) (inclusive of health system cost)	DALYs Averted	Unit Cost (\$) (inclusive of health system cost)	DALYs Averted
2021	23.68	1,378,378	22.52	1,356,350
2022	28.01	1,554,722	26.24	1,524,939
2023	31.75	1,726.055	29.48	1,689,759
2024	35.52	1,891,446	32.74	1,848,533
2025	39.33	2,057,942	35.92	2,007,048
2026	43.02	2,217,226	39.11	2,159,657
2027	46.64	2,383,178	42.21	2,318,819

	DISTRICT EPHS – 96 interventions (Immediate Priority)				
Year	Unit Cost (\$) (inclusive of health system cost)	DALYs Averted	Unit Cost (\$) 8% annual inflation rate		
2021	19.90	1,333,817	21.50		
2022	22.69	1,495,185	24.51		
2023	25.05	1,652,841	27.06		
2024	27.44	1,804,430	29.64		
2025	29.82	1,955,938	32.20		
2026	32.07	2,101,255	34.63		
2027	34.27	2,253,115	37.02		

	Tertiary Hospital Level – 25 interventions					
Year	Unit Cost (\$) (inclusive of health system cost)	DALYs Averted	Unit Cost (\$) with 8% annual inflation rate			
2021	4.40	83,000	4.76			
2022	4.85	89,800	5.24			
2023	5.61	101,120	6.06			
2024	6.42	110,012	6.93			
2025	7.15	121,367	7.73			
2026	8.13	135,599	8.78			
2027	9.13	149,894	9.86			

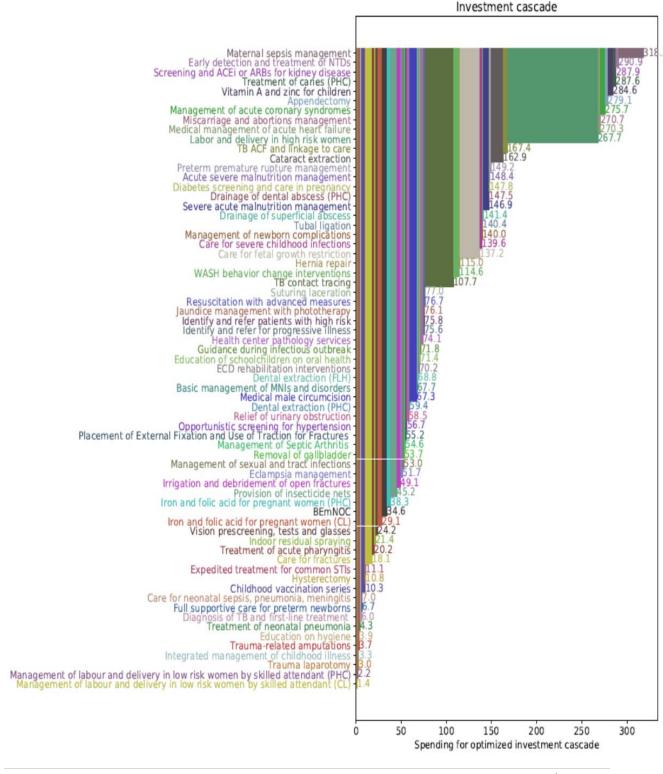
	Population Level – 11 interventions				
Year	Unit Cost (\$)	Unit Cost (\$) with 8% annual inflation rate			
2021	4.63	4.63			
2022		5.00			
2023		5.40			
2024		5.83			
2025		6.30			
2026		6.80			
2027		7.35			

Notes:

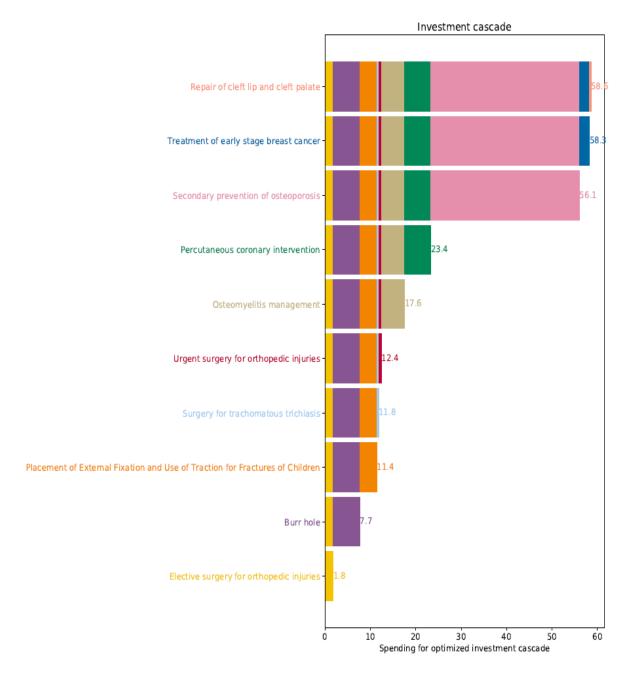
- Considering high incidence of malaria and other needs in Balochistan, more district level interventions were considered for prioritization i.e., 120 interventions compared to 117 in the generic EPHS;
- Unit cost at community level is comparatively higher considering plan of the Health Department to invest more and ensure availability of services;
- Unit cost at PHC centre is significantly low, considering less availability and utilization of essential health services at this level;
- Similarly, FLH have to offer comparatively more services considering HRH challenges at PHC centre level;
- Population level interventions appears to be less cost effective in the context of Balochistan, considering less population and difficulty in measuring impact; partnership with other provinces/ areas is recommended.

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 Balochistan is as below:



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



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

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

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiveness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate/ Special Initiatives
C1-COM	Antenatal and postpartum education on family planning	RMNCH	14	57	15,749	94,076	0.03%	Low	0.007	1.08	0.59	Immediate
C10-COM	Education on handwashing and safe disposal of children's stools	RMNCH	9	34	3,283	203,303	0.06%	Low	0.015	2.33	1.26	Immediate
C11-COM	Pneumococcus vaccination	RMNCH	51	749	765	3,560,637	1.11%	High	0.263	40.77	19.48	Immediate
C12-COM	Rotavirus vaccination	RMNCH	106	38,571	5	1,758,734	0.55%	Medium	0.130	20.14	9.62	Х
C14-COM	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	RMNCH	97	6,143	190	5,459,833	1.70%	High	0.403	62.52	22.10	Special Initiative Zinc as Immediate
C16-COM	Childhood vaccination series (diphtheria, pertussis, tetanus, polio, BCG, measles, hepatitis B, Hib, rubella)	RMNCH	20	121	2,382	3,262,540	1.02%	High	0.241	37.36	19.84	Immediate
C18-COM	Education of schoolchildren on oral health	RMNCH	54	1,082	369	1,272,138	0.40%	Low	0.094	14.57	1.42	Immediate
C19-COM	Vision pre-screening by teachers; vision tests and provision of ready-made glasses on-site by eye specialists	RMNCH	26	229	174	2,796,723	0.87%	Medium	0.207	32.02	3.13	Immediate
C2-COM	Counselling of mothers on providing thermal care for preterm new-born (delayed bath and skin-to-skin contact)	RMNCH	11	54	2,583	31,485	0.01%	Low	0.002	0.36	0.80	Immediate

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiveness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate/ Special Initiatives
C27a-COM	Provision of iron and folic acid supplementation to pregnant women, and provision of food or caloric supplementation to pregnant women in food insecure households (CL)	RMNCH	27	266	844	4,836,059	1.51%	High	0.357	55.38	60.17	Immediate
C27b-PHC	Provision of iron and folic acid supplementation to pregnant women, and provision of food or caloric supplementation to pregnant women in food insecure households (PHC)	RMNCH	31	286	844	3,695,089	1.15%	High	0.273	42.31	60.66	Immediate
C28-COM	Community-based HIV testing and counselling (for example, mobile units and venue-based testing), with appropriate referral or linkage to care and immediate initiation of lifelong ART	Infectious Disease Cluster	113	286	99	2,318	0.00%	Low	0.000	0.03	2.38	Special Initiative
C30a-COM	Provision of condoms to key populations, including sex workers, men who have sex with men, people who inject drugs (IDU), transgender populations, and prisoners	Infectious Disease Cluster	112	286	282	20,518	0.01%	Low	0.002	0.23	24.06	Special Initiative
C30b-COM	Provision of disposable syringes to people who inject drugs (IDU)	Infectious Disease Cluster	30	286	282	23,963	0.01%	Low	0.002	0.27	8.55	Special Initiative
C32-COM	Routine contact tracing to identify individuals exposed to TB and link them to care	Infectious Disease Cluster	65	1,082	1,211	30,686,947	9.58%	High	2.267	351.39	14.73	Immediate
C33-PHC	For malaria due to P. vivax, test for G6PD deficiency; if normal, add chloroquine or chloroquine plus 14-day course of primaquine	Infectious Disease Cluster	117	1,082	651	-	0.00%	Low	-	-	2.81	Х
C3a-COM	Management of labour and delivery in low-risk women by skilled attendant	RMNCH	3	2	14,606	1,353,358	0.42%	Low	0.100	15.50	24.58	Immediate
C3b-COM	Basic neonatal resuscitation following	RMNCH	2	1	14,606	94,773	0.03%	Low	0.007	1.09	1.72	Immediate

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiveness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate/ Special Initiatives
	delivery											
C3c-PHC	Management of labour and delivery in low-risk women by skilled attendant	RMNCH	5	17	14,606	864,330	0.27%	Low	0.064	9.90	25.40	Immediate
C3d-PHC	Basic neonatal resuscitation following delivery	RMNCH	1	1	14,606	63,265	0.02%	Low	0.005	0.72	1.86	Immediate
C4-COM	Promotion of breastfeeding or complementary feeding by lay health workers	RMNCH	12	54	2,344	194,150	0.06%	Low	0.014	2.22	1.21	Immediate
C43-COM	Early detection and treatment of Chagas disease, human African trypanosomiasis, leprosy, and leishmaniases	Infectious Disease Cluster	101	8,857	10	2,972,197	0.93%	Medium	0.220	34.03	13.50	Immediate
C45-COM	Identify and refer patients with high risk including pregnant women, young children, and those with underlying medical conditions	Infectious Disease Cluster	71	1,082	786	233,545	0.07%	Low	0.017	2.67	0.96	Immediate
C46-COM	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	Infectious Disease Cluster	99	1,082	2,865	973,103	0.30%	Low	0.072	11.14	0.48	Immediate
C5-PHC	Tetanus toxoid immunization among schoolchildren and among women attending antenatal care	RMNCH	87	2,857	205	106,129	0.03%	Low	0.008	1.22	1.14	Immediate
C51-COM	WASH behaviour changes interventions, such as community-led total sanitation	NCD & IPC	56	1,082	3,693	6,851,836	2.14%	High	0.506	78.46	1.15	Х
C53a-COM	Identification/screening of the early childhood development issues motor, sensory and language stimulation	Health Services	115	1,082	281	-	0.00%	Low	-	-	1.27	Х
C53b-PHC	Early childhood development rehabilitation interventions, including motor, sensory, and language stimulation	Health Services	66	1,082	281	1,314,805	0.41%	Low	0.097	15.06	13.78	Special Initiative
C8-COM	Detection and management of acute severe malnutrition and referral in the	RMNCH	88	2,900	404	609,989	0.19%	Low	0.045	6.98	21.31	Special Initiative

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiveness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate/ Special Initiatives
	presence of complications											
FLH1-FLH	Detection and management of foetal growth restriction	RMNCH	77	1,286	4,268	22,191,924	6.93%	High	1.639	254.11	546.48	Special Initiative
FLH10-FLH	Surgical termination of pregnancy by manual vacuum aspiration and dilation and curettage	RMNCH	70	1,082	41	29,838	0.01%	Low	0.002	0.34	195.94	Immediate
FLH11-FLH	Full supportive care for severe childhood infections with danger signs	RMNCH	76	1,286	8,574	2,314,230	0.72%	Medium	0.171	26.50	283.63	Immediate
FLH12-FLH	Management of severe acute malnutrition associated with serious infection	RMNCH	84	2,286	404	5,551,339	1.73%	High	0.410	63.57	255.14	Special Initiative
FLH13-FLH	Early detection and treatment of early- stage cervical cancer	RMNCH	48	557	45	4,314	0.00%	Low	0.000	0.05	289.72	Immediate
FLH14-FLH	Insertion and removal of long-lasting contraceptives (IUCDs and Implants)	RMNCH	57	1,082	131	1,136	0.00%	Low	0.000	0.01	1.97	Immediate
FLH15-FLH	Tubal ligation	RMNCH	82	2,000	131	347,381	0.11%	Low	0.026	3.98	200.99	Immediate
FLH16-FLH	Vasectomy	RMNCH	34	314	131	42,563	0.01%	Low	0.003	0.49	196.52	Immediate
FLH17-FLH	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)	Infectious Disease Cluster	33	314	143	60,146	0.02%	Low	0.004	0.69	634.76	Immediate
FLH18-FLH	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	Infectious Disease Cluster	19	116	29,773	34,953	0.01%	Low	0.003	0.40	143.46	Immediate
FLH20-FLH	Management of acute coronary syndromes with aspirin, unfractionated heparin, and generic thrombolytics (when indicated)	NCD & IPC	94	4,593	1,721	5,028,103	1.57%	High	0.371	57.58	455.88	Immediate

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FLH22-FLH	Management of acute exacerbations of asthma and COPD using systemic steroids, inhaled beta-agonists, and, if indicated, oral antibiotics and oxygen therapy	NCD & IPC	103	15,714	918	5,999,171	1.87%	High	0.443	68.69	86.53	Immediate
FLH23-FLH	Medical management of acute heart failure	NCD & IPC	93	3,857	17	2,648,588	0.83%	Medium	0.196	30.33	659.21	Х
FLH24-FLH	Management of bowel obstruction	NCD & IPC	42	457	58	132,430	0.04%	Low	0.010	1.52	284.24	Immediate
FLH3-FLH	Jaundice management with phototherapy	RMNCH	69	1,082	1,144	222,874	0.07%	Low	0.016	2.55	107.61	Immediate
FLH30-FLH	Management of intoxication/poisoning syndromes using widely available agents; e.g., activated charcoal, naloxone, bicarbonate, antivenom	NCD & IPC	55	1,082	452	12,186	0.00%	Low	0.001	0.14	32.01	Immediate
FLH31-FLH	Appendectomy	Health Services	95	4,814	42	3,417,974	1.07%	High	0.253	39.14	292.52	Immediate
FLH34-FLH	Colostomy	Health Services	17	86	78	75,560	0.02%	Low	0.006	0.87	313.25	TH
FLH35-FLH	Escharotomy or fasciotomy	Health Services	111	276	109	31,713	0.01%	Low	0.002	0.36	328.12	TH
FLH36-FLH	Fracture reduction and placement of external fixator and use of traction for fracture	Health Services	23	157	3,463	7,052,361	2.20%	High	0.521	80.75	265.05	Immediate
FLH38-FLH	Hysterectomy for uterine rupture or intractable postpartum haemorrhage	Health Services	21	139	239	447,927	0.14%	Low	0.033	5.13	347.68	Immediate
FLH39-FLH	Irrigation and debridement of open fractures	Health Services	36	410	3,463	3,858,759	1.20%	High	0.285	44.19	401.70	Immediate
FLH4-FLH	Management of eclampsia with magnesium sulphate, including initial stabilization at Health Centre	RMNCH	37	429	286	2,590,216	0.81%	Medium	0.191	29.66	181.55	Immediate
FLH41a-FLH	Management of septic arthritis	Health Services	46	529	308	867,872	0.27%	Low	0.064	9.94	427.43	Immediate
FLH41b-FLH	Placement of External Fixation and Use of Traction for fractures	Health Services	47	529	2,311	588,404	0.18%	Low	0.043	6.74	364.88	Immediate

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FLH42-FLH	Relief of urinary obstruction by catheterization or suprapubic cystostomy	Health Services	50	743	256	1,846,196	0.58%	Medium	0.136	21.14	234.95	Immediate
FLH43-FLH	Removal of gallbladder including emergency surgery	Health Services	44	486	53	702,826	0.22%	Low	0.052	8.05	323.50	Immediate
FLH44-FLH	Repair of perforations (for example, perforated peptic ulcer, typhoid ileal perforation)	Health Services	15	74	71	21,010	0.01%	Low	0.002	0.24	408.45	Immediate
FLH45-FLH	Resuscitation with advanced life support measures, including surgical airway	Health Services	67	1,082	3,069	692,084	0.22%	Low	0.051	7.92	85.21	Immediate
FLH48a-FLH	Trauma laparotomy	Health Services	6	20	3,463	782,791	0.24%	Low	0.058	8.96	376.30	Immediate
FLH49-FLH	Trauma-related amputations	Health Services	8	33	3,463	334,812	0.10%	Low	0.025	3.83	329.79	TH
FLH5-FLH	Management of maternal sepsis, including early detection at Health Centre	RMNCH	102	13,571	40	4,466,480	1.39%	High	0.330	51.14	239.10	Immediate
FLH50-FLH	Tube thoracostomy	Health Services	59	1,082	3,631	11,463	0.00%	Low	0.001	0.13	90.18	Immediate
FLH52-FLH	Compression therapy for amputations, burns, and vascular or lymphatic disorders	Health Services	52	800	109	13,379	0.00%	Low	0.001	0.15	9.23	Immediate
FLH6-FLH	Management of new-born complications infections, meningitis, septicaemia, pneumonia and other very serious infections requiring continuous supportive care (such as IV fluids and oxygen)	RMNCH	79	1,429	765	383,896	0.12%	Low	0.028	4.40	134.41	Immediate
FLH7-FLH	Management of preterm labour with corticosteroids, including early detection at Health Centre	RMNCH	105	35,714	2,583	8,914,017	2.78%	High	0.659	102.07	268.02	Immediate
FLH8-FLH	Management of labour and delivery in high-risk women, including operative delivery (CEmNOC)	RMNCH	91	3,703	15,749	100,285,324	31.31%	High	7.409	1,148.34	606.02	Immediate
HC1-PHC	Early detection and treatment of neonatal pneumonia with oral antibiotics	RMNCH	10	41	765	455,595	0.14%	Low	0.034	5.22	5.80	Immediate

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HC10-FLH	Screening and management of diabetes in pregnancy (gestational diabetes or preexisting type II diabetes)	RMNCH	86	2,571	46	275,066	0.09%	Low	0.020	3.15	27.13	Immediate
HC11-PHC	Management of labour and delivery in low-risk women (BEmNOC), including initial treatment of obstetric or delivery complications prior to transfer	RMNCH	28	267	15,749	5,501,859	1.72%	High	0.406	63.00	33.87	Immediate
HC12-PHC	Detection and treatment of childhood infections with danger signs (IMCI)	RMNCH	7	23	8,918	332,788	0.10%	Low	0.025	3.81	7.93	Immediate
HC14-PHC	Psychological treatment for mood, anxiety, ADHD, and disruptive behaviour disorders	RMNCH	96	4,821	874	98,041	0.03%	Low	0.007	1.12	2.18	Immediate
HC16-PHC	Post gender-based violence care, including counselling, provision of emergency contraception, and rape-response referral (medical and judicial)	RMNCH	120	1,206	985	173,104	0.05%	Low	0.013	1.98	15.99	Х
HC17-PHC	Syndromic management of common sexual and reproductive tract infections (for example uretheral discharge, genital ulcer, and others) according to WHO guidelines	RMNCH	43	469	183	1,338,132	0.42%	Low	0.099	15.32	5.42	Immediate
HC19-FLH	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	Infectious Disease Cluster	75	1,251	414	-	0.00%	Low	-	-	320.78	х
HC2-PHC	Management of miscarriage or incomplete abortion and post abortion care	RMNCH	92	3,857	41	374,724	0.12%	Low	0.028	4.29	30.76	Immediate

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НС20-РНС	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	Infectious Disease Cluster	45	504	414	167,510	0.05%	Low	0.012	1.92	4.12	Special Initiative
HC21-PHC	Partner notification and expedited treatment for common STIs, including HIV	Infectious Disease Cluster	22	156	282	323,408	0.10%	Low	0.024	3.70	3.92	Immediate
HC23-PHC	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 those testing positives for HIV	Infectious Disease Cluster	38	429	695	25	0.00%	Low	0.000	0.00	4.65	Х
HC24-FLH	As resources permit, hepatitis B vaccination of high-risk populations, including healthcare workers, PWID, MSM, household contacts, and persons with multiple sex partners	Infectious Disease Cluster	119	386	191	345	0.00%	Low	0.000	0.00	2.83	х
HC25-PHC	Provision of voluntary medical male circumcision service in settings with high prevalence of HIV	Infectious Disease Cluster	114	1,081	282	7,935,110	2.48%	High	0.586	90.86	42.56	Immediate
HC26-PHC	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	Infectious Disease Cluster	110	271	1,211	-	0.00%	Low	-	-	21.46	Immediate

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HC27-PHC	Diagnosis of TB, including assessment of rifampicin resistance using rapid molecular diagnostics (UltraXpert), and initiation of first-line treatment per current WHO guidelines for drugsusceptible TB; referral for confirmation, further assessment of drug resistance, and treatment of drug-resistant TB	Infectious Disease Cluster	13	56	1,211	1,626,139	0.51%	Medium	0.120	18.62	98.55	Immediate
HC28-COM	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	Infectious Disease Cluster	4	4	99	130	0.00%	Low	0.000	0.00	2.61	Special Initiative
HC3-FLH	Management of preterm premature rupture of membranes, including administration of anti-biotics	RMNCH	89	3,041	3,462	856,484	0.27%	Low	0.063	9.81	187.48	Immediate
НС30-РНС	Evaluation and management of fever in clinically stable individuals using WHO IMAI guidelines, with referral of unstable individuals to first-level hospital care	Infectious Disease Cluster	116	1,082	29,773	109,378	0.03%	Low	0.008	1.25	4.46	Immediate
HC32-PHC	Provision of insecticide-treated nets to children and pregnant women attending Health Centre	Infectious Disease Cluster	29	286	786	6,962,126	2.17%	High	0.514	79.72	9.12	Immediate
НС33-РНС	Identify and refer to higher levels of health care patients with signs of progressive illness	Infectious Disease Cluster	64	1,082	786	1,479,141	0.46%	Low	0.109	16.94	5.20	Х
НСЗ6-РНС	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	NCD & IPC	61	1,082	4,492	117,901	0.04%	Low	0.009	1.35	10.55	Immediate
НС37-РНС	Low-dose inhaled corticosteroids and bronchodilators for asthma and for selected patients with COPD	NCD & IPC	104	25,180	918	105,692	0.03%	Low	0.008	1.21	2.70	Immediate

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НС38-РНС	Provision of aspirin for all cases of suspected acute myocardial infarction	NCD & IPC	41	443	1,721	10,417	0.00%	Low	0.001	0.12	0.94	Immediate
НС39а-РНС	Screening of albuminuria kidney disease including targeted screening among people with diabetes	NCD & IPC	100	8,737	699	306,529	0.10%	Low	0.023	3.51	10.69	Immediate
HC41-PHC	Secondary prophylaxis with penicillin for rheumatic fever or established rheumatic heart disease	NCD & IPC	60	1,082	437	2,886	0.00%	Low	0.000	0.03	3.16	Immediate
HC42-PHC	Treatment of acute pharyngitis in children to prevent rheumatic fever	NCD & IPC	24	214	437	2,096,185	0.65%	Medium	0.155	24.00	5.17	Immediate
HC45-PHC	Opportunistic screening for hypertension for all adults and initiation of treatment among individuals with severe hypertension and/or multiple risk factors	NCD & IPC	49	571	4,189	1,470,975	0.46%	Low	0.109	16.84	23.22	Immediate
HC4a-COM	Provision of condoms and hormonal contraceptives, including emergency contraceptives	RMNCH	32	286	282	34,473	0.01%	Low	0.003	0.39	16.15	Immediate
HC4b-PHC	Provision of condoms and hormonal contraceptives, including emergency contraceptives and IUDs	RMNCH	109	6,501	282	215,457	0.07%	Low	0.016	2.47	16.15	Immediate
HC50-PHC	Management of depression and anxiety disorders with psychological and generic antidepressant therapy	NCD & IPC	78	1,082	703	731,578	0.23%	Low	0.054	8.38	34.62	Immediate
НС56-РНС	Targeted screening for congenital hearing loss in high-risk children using otoacoustic emissions testing	NCD & IPC	81	1,857	257	58,441	0.02%	Low	0.004	0.67	14.89	Immediate
HC57a-PHC	Dental extraction (PHC)	Health Services	53	1,000	98	863,383	0.27%	Low	0.064	9.89	20.58	Immediate
HC57b-FLH	Dental extraction (FLH)	Health Services	63	1,082	98	1,103,867	0.34%	Low	0.082	12.64	23.68	Immediate
HC58a-PHC	Drainage of dental abscess (PHC)	Health Services	85	2,543	26	576,926	0.18%	Low	0.043	6.61	15.47	Immediate

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiveness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate/ Special Initiatives
НС59-РНС	Drainage of superficial abscess	Health Services	83	2,159	8	998,512	0.31%	Low	0.074	11.43	17.04	Immediate
HC5a-COM	Counselling of mothers on providing kangaroo care for new-born (CL)	RMNCH	39	430	3,818	621	0.00%	Low	0.000	0.01	0.72	Immediate
HC5b-PHC	Counselling of mothers on providing kangaroo care for new-born (PHC)	RMNCH	40	430	3,818	2,388	0.00%	Low	0.000	0.03	0.72	Immediate
HC6-FLH	Management of neonatal sepsis, pneumonia, and meningitis using injectable and oral antibiotics	RMNCH	18	107	765	300,941	0.09%	Low	0.022	3.45	70.24	Immediate
НС60-РНС	Management of non-displaced fractures	Health Services	58	1,082	3,463	109,946	0.03%	Low	0.008	1.26	14.31	Immediate
HC61-PHC	Resuscitation with basic life support measures	Health Services	72	1,082	3,069	8,963	0.00%	Low	0.001	0.10	1.75	Immediate
HC62-PHC	Suturing laceration	Health Services	68	1,082	3,463	231,195	0.07%	Low	0.017	2.65	3.01	Immediate
HC63a-PHC	Treatment of caries	Health Services	98	6,644	26	3,016,599	0.94%	Medium	0.223	34.54	26.96	Immediate
HC64-PHC	Basic management of musculoskeletal and neurological injuries and disorders, such as prescription of simple exercises and sling or cast provision	Health Services	62	1,082	4,344	586,217	0.18%	Low	0.043	6.71	9.32	Immediate
НС68-РНС	Health centre pathology services	Health Services	73	1,082	786	2,388,608	0.75%	Medium	0.176	27.35	23.53	Х
HC7-PHC	Pharmacological termination of pregnancy	RMNCH	80	1,714	41	155,704	0.05%	Low	0.012	1.78	18.26	Immediate
HC9a-COM	Screening of hypertensive disorders in pregnancy	RMNCH	108	132,148	286	55,403	0.02%	Low	0.004	0.63	0.45	Immediate
HC9b-PHC	Screening and management of hypertensive disorders in pregnancy	RMNCH	107	132,148	286	766,404	0.24%	Low	0.057	8.78	7.55	Immediate
RH1-FLH	Full supportive care for preterm new-born	RMNCH	16	83	14,905	779,979	0.24%	Low	0.058	8.93	41.04	Immediate
RH14-FLH	Cataract extraction and insertion of intraocular lens	Health Services	90	3,143	63	13,678,918	4.27%	High	1.011	156.63	258.12	Immediate

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiveness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate/ Special Initiatives
C17-PHC	In high malaria transmission settings, indoor residual spraying (IRS) in selected areas with high transmission and entomologic data on IRS susceptibility	RMNCH	25	217	651	1,206,696	0.00%	Low	0.089	13.82	1.78	Immediate
C34-PHC	Conduct larvicide and water-management programs in high malaria transmission areas where mosquito breeding sites can be identified and regularly targeted	Infectious Disease Cluster	35	318	786	188,779	0.00%	Low	0.014	2.16	0.70	Immediate
FLH37a-FLH	Hernia repair including emergency surgery	Health Services	74	1,086	30	482,509	0.00%	Low	0.036	5.53	255.16	Immediate
P5-COM	Systematic identification of individuals with TB symptoms among high-risk groups and linkage to care ("active case finding")	Infectious Disease Cluster	118	3,571	1,211	4,512,893	1.41%	High	0.333	51.68	0.83	Immediate

Note: Health System cost is included

LEGENDS		
	Strong and positive evidence	Intervention recommended for Immediate implementation
	Medium positive evidence	Intervention recommended for implementation through Special initiatives
	Weak positive evidence	Not an immediate priority OR shifted from FLH to Tertiary Hospital

Localised Evidence for 22 (+3) Prioritized Interventions in Tertiary Hospital EPHS

DCP 3 Code	Full Name	Cluster	Cost effective- ness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention USD	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Intervention \$	Immediate / Special Initiatives
FLH25	Calcium and vitamin D supplementation for secondary prevention of osteoporosis	NCD & IPC	17	2,186	308	32,740,508	48.0%	High	2.4	374.90	251.55	Immediate
FLH33	Craniotomy for Trauma	Health Services	4	286	639	5,869,270	8.6%	High	0.4	67.21	528.75	Immediate
FLH37b	Hernia Repair Including Emergency Surgery for neonates and infants	Health Services	1	17	30	5,682	0.0%	Low	0.0	0.07	244.83	Immediate
FLH40	Management of osteomyelitis, including surgical debridement for refractory cases	Health Services	10	799	308	5,130,593	7.5%	High	0.4	58.75	432.43	Immediate
FLH41c	Placement of External Fixation and Use of Traction for Fractures of Children	Health Services	8	529	2,311	3,730,992	5.5%	High	0.3	42.72	330.53	Immediate
FLH48b	Trauma laparotomy in children	Health Services	2	20	3,463	39,716	0.1%	Low	0.0	0.45	351.85	Immediate
RH2	Specialized TB services, including management of MDR- and XDR-TB treatment failure and surgery for TB	Infectious Disease Cluster	21	1,082	1,211	113,191	0.2%	Low	0.0	1.30	838.46	Immediate
RH3	Management of refractory febrile illness including etiologic diagnosis at reference microbiological laboratory	Infectious Disease Cluster	13	1,082	29,773	8,988,173	13.2%	High	0.7	102.92	1,144.84	Immediate
RH4	Management of acute ventilatory failure due to acute exacerbations of asthma and COPD; in COPD use	NCD & IPC	20	15,714	918	18,520	0.0%	Low	0.0	0.21	51.19	Immediate

	of bilevel positive airway pressure preferred											
RH5	Retinopathy screening via telemedicine, followed by treatment using laser photocoagulation	NCD & IPC	5	314	808	178	0.0%	Low	0.0	0.00	2.92	Immediate
RH6	Use of percutaneous coronary intervention for acute myocardial infarction where resources permit	NCD & IPC	11	962	1,721	5,785,539	8.5%	High	0.4	66.25	437.13	Immediate
RH7	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	NCD & IPC	18	9,286	341	2,184,591	3.2%	High	0.2	25.02	2,216.87	Immediate
RH8	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	NCD & IPC	12	1,071	78	100,455	0.1%	Low	0.0	1.15	680.78	Immediate
RH9	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	NCD & IPC	16	1,571	775	142,824	0.2%	Low	0.0	1.64	2,512.20	Immediate
RH10	Elective surgical repair of common orthopaedic injuries (for example, meniscal and ligamentous tears) in individuals with severe functional limitation	NCD & IPC	3	157	3,463	1,838,009	2.7%	High	0.1	21.05	407.82	Immediate
RH11	Urgent, definitive surgical management of orthopaedic injuries (for example, by open reduction and internal fixation)	NCD & IPC	8	529	3,463	614,669	0.9%	Medium	0.0	7.04	300.05	Immediate

RH12	Repair of cleft lip and cleft palate	NCD & IPC	19	11,286	19	318,623	0.5%	Low	0.0	3.65	875.69	Immediate
RH13	Repair of club foot	NCD & IPC	6	474	46	131,391	0.2%	Low	0.0	1.50	161.78	Immediate
RH15	Repair of anorectal malformations and Hirschsprung's Disease	Health Services	14	1,082	97	3,744	0.0%	Low	0.0	0.04	392.28	Immediate
RH16	Repair of obstetric fistula	Health Services	14	1,082	192	20,404	0.0%	Low	0.0	0.23	429.45	Immediate
RH17	Insertion of shunt for hydrocephalus	Health Services	22	226	84	-	0.0%	Low	-	-	421.32	Immediate
RH18	Surgery for trachomatous trichiasis	Health Services	7	529	33	377,159	0.6%	Medium	0.0	4.32	232.34	Immediate
FLH34 FLH35 FLH39	ColostomyEscharotomy or fasciotomyIrrigation and debridement of open fractures	FLH interventions shifted to TH in Balochistan till the time resources/ expertise available										Shifted from FLH to TH

Note: Health System cost is included

LEGENDS							
	Strong and positive evidence		Intervention recommended for Immediate implementation				
	Medium positive evidence		Intervention recommended for implementation through Special initiatives				
	Weak positive evidence		Not an immediate priority AND/OR shifted from FLH to Tertiary Hospital				

11 Prioritized Interventions at Population Level

Code	Intervention	Cluster	Unit Cost (\$)/ Capita/Yr
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	0.30
P2	Mass media messages concerning healthy eating or physical activity (Also included in CVD and Musculoskeletal packages of services)	RMNCH	0.30
C25	Education campaign for the prevention of gender-based violence	RMNCH	0.30
P4	Mass media encouraging use of condoms, voluntary medical male circumcision and STI testing	RMNCH	0.30
P6	Sustained integrated vector management for effective control of Chagas disease, visceral Leishmaniasis, dengue, chikungunya, CCHF and other nationally important causes of non-malarial fever vector borne NTDs	Infectious Disease Cluster	0.31
P13	Mass media messages concerning awareness on handwashing and health effects of household air pollution	Infectious Disease Cluster	0.30
P7	Conduct a comprehensive assessment of International Health Regulations (IHR) competencies using the Joint External Evaluation (JEE) tool	Infectious Disease Cluster	0.01
P11	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	0.18
P8	Conduct simulation exercises and health worker training for outbreak events including outbreak investigation, contact tracing and emergency response	Infectious Disease Cluster	0.02
Р9	Decentralize stocks of antiviral medications in order to reach at risk groups and disadvantaged populations	Infectious Disease Cluster	2.31
Р3	Mass media messages concerning use of tobacco and alcohol (Also included in CVD and Musculoskeletal packages of services)	NCD & IPC	0.30

For population level interventions, partnership with other provinces is recommended to bring the unit cost down.

HEALTHCARE DELIVERY SYSTEM IN BALOCHISTAN

Balochistan 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.

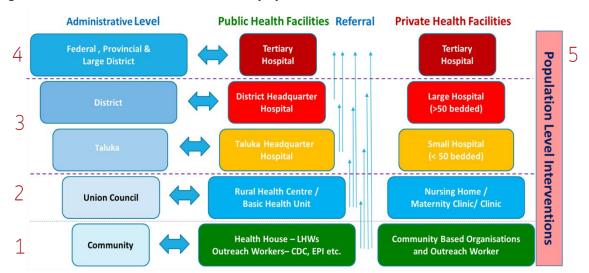


Figure: Public & Private Healthcare Delivery System in Balochistan

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, medical stores, and unqualified practitioners. The private healthcare delivery system includes clinics, maternity clinics, nursing homes, small hospitals (less than 50 bedded) and large hospitals (more than 50 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, with bias towards urban areas. Many patients also access services from other provinces especially cities of Karachi and Multan.

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, 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 Plus 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/ 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 5,000 to 25,000. 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 Plus / MCH Centre / Medical Centre

With increasing population and to ensure 24/7 delivery services, the concept of BHU Plus emerged. In comparison to BHU, BHU Plus is envisaged to provide wider range of services including round the clock delivery services. BHU Plus is envisaged to serve a catchment population of 25,000 - 40,000. It is important to offer wide range of services, infrastructure, human resources, equipment and supplies should also be ensured at BHU Plus.

Rural Health Centre / Health Centre/ Nursing Homes

Rural Health Centre (RHC) functions around the clock and serves 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, dog bite/snake bite; 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 also provides medico-legal, basic surgical, dental and ambulance services. 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. First level hospitals include Tehsil Head Quarters (THQs), and District Head Quarter (DHQs) in public sector. The services provided at the health facilities are primarily curative in nature. Administratively, these hospitals are run by senior doctors or medical superintendents who oversee medical staff that comprises doctors, nurses, paramedics, and other technicians.

Private hospital less than 50 beds are equivalent to THQ hospital while private hospitals having bed capacity more than 50 are equivalent to DHQ hospital.

Tehsil Head Quarter (THQ) hospital / 50 bedded Private hospitals

The catchment population of THQ hospital is the population of that Tehsil and may vary from 60,000 to 1 million people or even more. Hospital beds in THQ hospital ranges from 40-150 depending upon the size of Tehsil. THQ hospital is supposed to provide basic (and sometimes Comprehensive Emergency Obstetrics and New-born Care (CEmONC), along with basic medical and surgical services. THQ hospital also provides services to those patients who are referred by RHCs, BHU, LHWs and CMWs.

District Head Quarters (DHQ) hospital / >50 bedded Private hospitals

DHQ hospital serves the whole population of a district and population may vary from 1-3 million or more. Number of hospital beds range from 200-400 or more. DHQ hospitals are supposed to provide specialized curative care, diagnostics, inpatient and referral services. DHQ hospital provides services to patients referred by LHWs, CMWs BHUs, RHCs and THQ hospital.

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 serve the neighbouring districts.

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 SERVICES

(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 94 interventions out of 218 recommended interventions by the DCP3 were prioritized for immediate implementation by stakeholders to be included in the Balochistan 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 10 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
- 3. 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 newborn (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)
 Childcare
- 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 initiative
- 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)

Infectious Diseases

- Community based HIV testing, counselling and referral (In high risk groups by CBO worker)
- Provision of condoms and disposable syringes (In high risk groups by CBO worker)
- 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 newborn 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 Plus (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
	Reproductive Healt	h/ 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. 4.	Insertion and removal of intrauterine device (IUD) Surgical contraceptive methods	Yes Yes	Yes (12/7) Yes	Yes (24/7) Yes	
		(Referral and Linkages)	(Referral and Linkages)	(Organize mini- lap camps and referral)	
	Antenata	l care			
5.	Counselling on providing thermal & kangaroo care to newborn	Yes	Yes	Yes	
6.	Counselling on breastfeeding and growth monitoring	Yes	Yes	Yes	
7.	Monitoring of pregnant women using MCH card (at least 4 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	
10.	Screening and care/ referral for hypertensive disorders in pregnancy	Yes	Yes (24/7 Care &	Yes (24/7 Care &	
11.	Diabetes care in pregnancy	Yes (Only screening and Referral)	referral) Yes (Screening and Referral for diabetes care in pregnancy)	referral) Yes (Screening and Referral for diabetes care in pregnancy)	
	Delivery	Care	p. 68.10.10//	p. 58.10.1011	
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	
_					

for a manufacture		Yes / No	24/7 DUC (Dun-1)
Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
Post-Nata	l Care		
Post-natal care services +3 follow up visits	Yes	Yes (12/7)	Yes (24/7)
Education and counselling on birth spacing during post- natal/ post abortion care	Yes	Yes	Yes
New-borr	n Care		
New-born care including care of cord (follow up visits)	Yes	Yes	Yes
Early initiation of breastfeeding (within ½ hour of birth) and initiation of growth monitoring	Yes	Yes	Yes
Ensuring thermal & kangaroo care to new-born	Yes	Yes	Yes
Initiation of immunization for BCG and zero dose polio	Yes	Yes	Yes
Nutriti	on		
Screening for malnutrition in children; growth monitoring, provision of food supplements for moderately acute	Yes	Yes (12/7)	Yes (24/7)
malnourished cases and refer severely acute malnourished			
	V	V	V
	Yes	Yes	Yes
• • • • • • • • • • • • • • • • • • • •	Vos	Vos	Yes
	163	163	163
	are		
		Vas (12/7)	Yes (24/7)
	163	103 (12/7)	103 (24/7)
Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3,	Yes	Yes	Yes
	V	V	V
	Yes	res	Yes
	hild Care		
-		Voc	Yes
			Yes
			Yes
		Yes	Yes
	. 65	. 65	. 00
Psychological treatment of depression, anxiety and disruptive behaviour disorders among adolescent; referral	Yes	Yes	Yes
Post gender-based violence care including counselling and	No	No	Yes (from 2022)
)iseases		
		No	Yes
			Yes
	education on		
	Hepatis B and C)		
Partner notification and expedited treatment for STI and	No	Yes	Yes
referral for HIV	(Only Health education on STI		
Discussional tractment of Tuberculesis (TD)	•	V	V
Diagnosis and treatment of Tuberculosis (TB)		Yes	Yes
			(Referral of MDR
	suspected cases)		cases)
Screening of HIV in all individuals with a diagnosis of active	No	No	Yes
	Post-natal care services +3 follow up visits Education and counselling on birth spacing during post- natal/ post abortion care New-born New-born care including care of cord (follow up visits) Early initiation of breastfeeding (within ½ hour of birth) and initiation of growth monitoring Ensuring thermal & kangaroo care to new-born Initiation of immunization for BCG and zero dose polio Nutriti 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 Provision of vitamin A (after National immunization days are stopped) and zinc supplementation Provision of micro-nutrients (iron and folic acid) and food supplementation to women and adolescent girls Child C Integrated management of childhood illnesses; immediate referral for danger signs and follow up visits Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3, Pneumococcal 1,2,3, Rota 1,2, Measles 1,2) Education on handwashing and safe disposal of children's stool School-age C Education and counselling on oral health Vision pre-screening and referral if required Drug administration against soil-transmitted helminthiasis Adolescent Syndromic management of common sexual and reproductive tract infections Psychological treatment of depression, anxiety and disruptive behaviour disorders among adolescent; referral if required Post gender-based violence care including counselling and referral Infectious E HIV testing, counselling and referral for ART Hepatis B and C testing and referral	Post-Natal Care services +3 follow up visits Yes Education and counselling on birth spacing during post-natal/ post abortion care New-born Care New-born Care New-born care including care of cord (follow up visits) Yes Early initiation of breastfeeding (within ½ hour of birth) and initiation of growth monitoring Ensuring thermal & kangaroo care to new-born Yes Initiation of immunization for BCG and zero dose polio Yes Screening for malnutrition in children; growth monitoring, provision of food supplements for moderately acute malnourished cases and refer severely acute malnourished cases and refer severely acute malnourished cases and refer severely acute malnourished cases to stabilization centre Provision of vitamin A (after National immunization days are stopped) and zinc supplementation Provision of micro-nutrients (iron and folic acid) and food Yes supplementation to women and adolescent girls Child Care Integrated management of childhood illnesses; immediate Yes referral for danger signs and follow up visits Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3, Yes Pneumococcal 1,2,3, Rota 1,2, Measles 1,2) Education on handwashing and safe disposal of children's Yes Yes Stool School-age Child Care Education and counselling on oral health Yes Vision pre-screening and referral if required Yes Programmistration against soil-transmitted helminthiasis Yes Programmistration against soil-transmitted helminthiasis Yes Psychological treatment of depression, anxiety and Yes Yes Psychological treatment of depression, anxiety and Yes Post gender-based violence care including counselling and No referral No (Only Health education on Hepatis B and C testing and referral for ART No Hepatis B and C testing and referral for ART Hepatis B and C testing and referral for ART Hepatis B and C testing and referral for ART Hepatis B and C testing and referral for ART Hepatis B and C testing and referral for ART Hepatis B and C testing and referral for ART Hepatis B and C testing and referral for ART Hepatis B and C	Post-Natal Care Post-natal care services +3 follow up visits Education and counselling on birth spacing during post- natal/ post abortion care New-born Care New-born Care New-born Care New-born Care New-born care including care of cord (follow up visits) Early initiation of breastfeeding (within ½ hour of birth) and yes Yes Early initiation of growth monitoring Ensuring thermal & kangaroo care to new-born Yes Yes Initiation of immunization for BCG and zero dose polio Yes Yes Initiation of immunization in children; growth monitoring, Yes Yes Initiation of food supplements for moderately acute malnourished cases and refer severely acute malnourished cases and refer severely acute malnourished cases and refer severely acute malnourished cases to stabilization centre Provision of vitamin A (after National immunization days Yes Yes supplementation to women and adolescent girls Child Care Integrated management of childhood illnesses; immediate Yes Yes (12/7) referral for danger signs and follow up visits Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3, Yes Yes Pneumococal 1,2,3, Rota 1,2, Measles 1,2) Education on handwashing and safe disposal of children's Yes Yes Stool School-age Child Care Education and counselling on oral health Yes Yes Drug administration against soil-transmitted helminthiasis Yes Yes Prey Yes Drug administration against soil-transmitted helminthiasis Yes Yes Post gender-based violence care including counselling and No No referral Infectious Diseases HIV testing, counselling and referral for ART No No No Pes Partner notification and expedited treatment for STI and referral on HIV Diagnosis and treatment of Tuberculosis (TB) No Yes

	PHC CENTRE LEVEL			
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	Yes / No 24/7 BHU Plus (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
39.	Screen for TB in all newly diagnosed PLHIV and close contacts	No	No	Yes
40.	Malaria-suspect to be diagnosed with RDT and treatment for positive cases	Yes	Yes	Yes (Pre-referral treatment in severe and complicated cases)
41.	Early detection and referral of Dengue and Trachoma cases	Yes	Yes	Yes
42.	Identification, reporting and referral of notifiable diseases (Conduct simulation exercises/ training)	Yes	Yes	Yes
	Non-Communica	ble Diseases		
43.	Low dose corticosteroid and bronchodilator for Asthma and selected COPD	Yes	Yes (12/7 with Nebulizer)	Yes (24/7 with Nebulizer)
44.	Cardiovascular risk factor screening using Non-lab-based tools and regular follow up	Yes	Yes (12/7)	Yes (24/7)
45.	Provision of aspirin for suspected acute myocardial cases	Yes	Yes	Yes
46.	Screening of albumin urea kidney disease in diabetics	Yes	Yes	Yes
47.	Secondary prophylaxes with penicillin for Rheumatic fever	Yes	Yes	Yes
48.	Treatment of acute pharyngitis	Yes	Yes	Yes
49.	Self-managed treatment of migraine	Yes	Yes	Yes
50.	Support caregivers of patients with dementia	Yes	Yes	Yes
51.	Management of anxiety and depression disorders	Yes	Yes	Yes
52.	Calcium and Vit D supplementation for prevention of osteoporosis in high-risk individuals	Yes	Yes	Yes
53.	Screening of hearing loss using otoscope and basic management/ referral	Yes	Yes	Yes
54.	WASH behaviour changes interventions	Yes	Yes	Yes
	Health Servic	es Access		
55.	Dental Care	Yes	Yes	Yes
		(Dental pain and infection management)	(Basic Dental care)	(Treatment of caries, drainage of dental abscess, dental extraction)
56.	Drainage of superficial abscess (Treatment of scabies, lice and skin infections)	Yes	Yes (12/7)	Yes (24/7)
57.	Management of non-displaced fracture and referral	No	Yes (24/7)	Yes (24/7)
58.	Circumcision	No	Yes	Yes
59.	Suturing of small laceration	Yes	Yes (24/7)	Yes (24/7)
60.	Identification and screening of early childhood development issues	Yes	Yes	Yes
61.	Basic management of musculoskeletal injuries and disorders	Yes	Yes	Yes
62.	Laboratory Services	Yes (Basic and rapid diagnostic lab services)	Yes (Essential PHC lab services including radiology)	Yes (RHC level lab services including radiology)

The availability of laboratory and imaging services that are following 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	& DIAGNOSTI	C INTERVENTIC	NS	
		Yes / No			
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
1.	Haemoglobin & Blood Complete Examination	Yes/No	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	Yes	Yes	
7.		(Only Qualitative)			
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.

		Ye	Yes / No	
:	r. No. Intervention	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital	
	Reproductive Health/ Birt	h Spacing		
1.	Early detection and treatment of early-stage cervical cancer	Yes	Yes	
2.	Insertion and removal of long-lasting contraceptives	Yes	Yes	
3.	Tubal ligations	Yes	Yes	
4.	Vasectomy	No	Yes	
	Antenatal care			
5.	Management of eclampsia with magnesium sulphate, including initial stabilization at health centres	l Yes	Yes	
6.	Screening and management of diabetes in pregnancy (gestational diapetes)	abetes Yes	Yes	
	Delivery care			
7.	Surgical termination of pregnancy by maternal vacuum aspiration an dilatation & curettage	d Yes	Yes	
8.	Management of labour and delivery in high-risk women, including operative delivery (CEmONC)	Yes	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	

	FIRST LEVEL HOSPITAL INTERVENTION		/ No
S	r. No. Intervention	Yes Tehsil Headquarter Hospital /	District Headquarter Hospital / >50
		<50 bedded Private Hospital	bedded Private Hospital
	New-born care	·	· ·
10.	Management of Neonatal sepsis, pneumonia and meningitis using	No	Yes
	injectable and oral antibiotics		
11.	Management of preterm premature rupture of membranes, including	Yes	Yes
	administration of antibiotics		
12.	Management of new-born complications infections, meningitis,	No	Yes
	septicaemia, pneumonia, and other very serious infections requiring		
12	continuous supportive care (such as IV fluids and oxygen)	V	V
13.	Full supportive care for preterm new-born	Yes Yes	Yes Yes
14.	Jaundice Management with Phototherapy Nutrition	165	165
	(Stabilization centres only in food-insecure districts)		Yes
	Childcare		165
1 [V	V
15.	Full supportive care for severe childhood infections with danger signs	Yes	Yes
	Infectious diseases	<u>.</u> .	.,
16.	For individuals testing positive for hepatitis B and C, assessment of	No	Yes
	treatment eligibility by trained providers followed by initiation and		
17.	monitoring of ART when indicated Referral of cases of treatment failure for drug susceptibility testing;	Yes	Yes
17.	enrolment of those with MDR-TB for treatment per WHO guidelines	163	163
18.	Evaluation and management of fever in clinically unstable individuals using	No	Yes
-0.	WHO IMAI guidelines, including empiric parenteral antimicrobials and	110	1.63
	antimalarial and resuscitative measures for septic shock		
	Non-communicable diseases		
19.	Management of acute coronary exacerbations of asthma and COPD using	Yes	Yes
	systemic steroids, inhaled beta-agonists and if indicated oral antibiotics and		
	oxygen therapy		
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,	No	Yes
	sensory, and language stimulation		
23.	Management of bowel obstruction	No	Yes
24.	Management of intoxication/ poisoning syndromes using widely available	No	Yes
	agents e.g., charcoal, naloxone, bicarbonate, antivenom		
25	Health services access	Voc	Voc
25. 26.	Appendectomy Colostomy (Adult and Paediatrics) (Refer to tertiary hospital)	Yes No	Yes No
20. 27.	Escharotomy or fasciotomy (Refer to tertiary hospital)	No No	No No
28.	Fracture reduction & placement of external fixator and use of traction for fractures		Yes
29.	Hysterectomy for uterine rupture or intractable postpartum haemorrhage	No	Yes
30.	Irrigation and debridement of open fractures (Refer to tertiary hospital)	No	No
31.	Management of septic arthritis	No	No
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	No	Yes
26	perforation)	Vac	Voc
36. 37.	Tube thoracostomy Trauma laparotomy	Yes No	Yes Yes
	Trauma related amputations	Yes	Yes
	Compression therapy for amputations, burns, and vascular or lymphatic	Yes	Yes
	disorders	. 55	. 55
40.	Cataract extraction and insertion of intraocular lens	No	Yes

The availability of laboratory and imaging services that are following 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 & DIAGNOS	STIC INTERVEN	TIONS
		Yes	/ No
S	r. No. Laboratory / Diagnostic Tests	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded 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.		Yes	Yes
12.	Prothrombin time test, APTT, INR	Yes	Yes
13.	Blood Urea and Nitrogen	Yes	Yes
14.	Hepatitis B & C test	Yes	Yes
	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.		Yes	Yes
23.	Cardiac Troponin - T test	No	Yes
24.	Microscopy of Cerebral Spinal Fluid	Yes	Yes
25.	HIV Testing	Yes	Yes
	Urine Analysis	No	Yes
27.		Yes	Yes
28.	Urine Myoglobin	No	Yes
29.		Yes	Yes
30.	High vaginal swab	No	Yes
31.	Semen analysis (sperm count)	Yes	Yes
	Lumbar Puncture	No	Yes
33.	Cytology (Pap smear or LBC) and Visual Inspection with Acetic acid (VIA)	No	Yes
34.	Molecular HPV testing	Yes	Yes
35.		No	Yes
	Intravenous pyelogram (IVP)	No	Yes
37.	Staining of smears for Ziehl-Neelsen or LED fluorescence microscopy	No	Yes
	APRI (AST-to-platelet ratio index)	No	Yes
	Liver Biopsy	No	Yes
40.	HBV & HCV Serological testing	Yes	Yes
41.	Nucleic Acid testing for HBV & HCV RNA	No	Yes
	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) 	No	Yes
45.	Genotypic DST Gastric Lavage	Yes	Yes

FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS District Headquarter Tehsil Headquarter Hospital / <50 bedded Private Sr. No. Hospital / >50 **Laboratory / Diagnostic Tests** bedded Private 46. Pulse oximetry Yes Yes Ultrasound Yes Yes 48. Chest X ray Yes Yes 49. ECG Yes Yes 50. Echo No Yes 51. CT Scan No Yes 52. CT scan with contrast No Yes 53. X-ray Abdomen erect Yes Yes 54. Radiograph of Limbs Yes Yes 55. Joint Fluid Aspirate Nο Yes 56. Fluid aspitrate gram stain and culture Nο 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 No Yes Ultrasound available) 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) Nο Yes 65. Antinuclear antibody (ANA) Yes No 66. Rheumatoid factor (RF) Yes No 67. Uric acid Yes Yes 68. Electrophoresis Yes No 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 No Yes specific) 73. X-ray with a contrast material (barium X-ray) No Yes 74. Dynamic swallowing study No Yes

Note: Blue ones are essential for intervention.

75. Fibreoptic endoscopic swallowing evaluation

78. Clinical chemistry panels (Automated analyser)

76. Manometry

77. CD4 Testing

81. Tissue Biopsy

82. H & E staining

80. FNAC

79. RPR test for Syphilis

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

No

No

Nο

Nο

No

No

No

No

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 workstation, which is a place where pregnant mothers will contact for consultation, examination, and delivery. CMW conducts safe delivery either at the CMW workstation 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 10 kanal, while for a RHC 24 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. Wheelchairs & 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 BHU Plus 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
 - o Vaccine storage and immunisation area
 - o 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 INFRASTRUCTURE NEEDS					
			Yes / No			
Sr. No.	Infrastructure	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)		
1.	Land required	10 Kanal (BHU)	10 Kanal (BHU Plus)	24 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		
9.	Operation Theatre (OT) with scrub/washing area, changing	Yes	Yes	Yes		
	room, sterilization room and generator room					
10.	Indoor Wards with nursing station and washrooms	No	No	Yes		
			(Two beds	(20 beds, 10		
			maternity room)	each for males		
				and females)		
	Dental room with washroom	No	Yes	Yes		
	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		
	Health education / Training room/ ORT corner	Yes	Yes	Yes		
	Laboratory	Yes (Mini-Lab)	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		
	Kitchen	No	No	Yes		
21.	Mortuary and postpartum room	No	No	Yes		
	Garage	No	Yes	Yes		
	Boundary wall	Yes	Yes	Yes		
	Residences for staff	Yes	Yes	Yes		
25.	Waste disposal area with proper infection control measures	Yes	Yes	Yes		
	/ protocols					
26.	Water supply & storage facility	Yes	Yes	Yes		
	Green area with plantation	Yes	Yes	Yes		
	Carpeted road access	Yes	Yes	Yes		
	Electricity, Water and Gas Facility	Yes	Yes	Yes		
	Telephone and Internet	Yes	Yes	Yes		
	Facility Sign board	Yes	Yes	Yes		
	Board with listed services, opening times and emergency	Yes	Yes	Yes		
	contacts					
33.	Fuel operated generator	No	Yes	Yes		

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

The suggested land area for THQ and DHQ level hospitals is as following to ensure provision of all essential in-patient and outpatient services:

a) THQ hospital – 50-200 bedded capacity - 7 ha/138 Kanals (350 m²/0.69 Kanals per bed)

b) DHQ- 200-500 bedded capacity - 10 ha/198 Kanals (333 m²/0.65 per bed)

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 INFRASTRUCTURE AND BASIC AMENITIES				
		Yes	Yes / No		
S	r. No. Infrastructure and Basic Amenities	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded 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.	Offices for senior staff, senior medical staff and admin/accounts	Yes	Yes		
7.	Examination & Procedure room	Yes	Yes		
8.	LHV / Population welfare rooms with washroom	Yes	Yes		
9.	Medical and non-medical stores in the ward	Yes	Yes		
10.	Labour room	Yes	Yes		
11.	Operation Theatre (OT) with scrub / washing area, changing room, sterilization room and generator room	Yes	Yes		
12.	ICU/CCU	No	Yes		
13.	Preoperative room	Yes	Yes		
14.	Recovery Room	Yes	Yes		
15.	Indoor wards with nursing station and washrooms	Yes	Yes		

	FIRST LEVEL HOSPITAL INFRASTRUCTURE AND BASIC AMENITIES				
		Yes	/ No		
S	r. No. Infrastructure and Basic Amenities	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
16.	Dental room with washroom	Yes	Yes		
17.	Waiting areas with washrooms	Yes	Yes		
18.	A big room for any meeting/ Academic activity	Yes	Yes		
19.	Dispensary	Yes	Yes		
20.	EPI room with regular & alternate electricity system	Yes	Yes		
21.	Health education / Training room / ORT corner	Yes	Yes		
22.	Laboratory	Yes	Yes		
23.	X ray room with darkroom facility	Yes	Yes		
24.	Storeroom	Yes	Yes		
25.	Ramps for disabled	Yes	Yes		
26.	Kitchen	Yes	Yes		
27.	Mortuary and postpartum room	Yes	Yes		
28.	Garage	Yes	Yes		
29.	Boundary Wall	Yes	Yes		
30.	Residences for staff	Yes	Yes		
31.	Waste disposal area with proper infection control measures/protocol	Yes	Yes		
32.	Water supply & Storage facility	Yes	Yes		
33.	Green area with plantation	Yes	Yes		
34.	External & Internal Road access	Yes	Yes		
35.	Electricity, Water, and Gas facility	Yes	Yes		
36.	Telephone and Internet	Yes	Yes		
37.	Facility sign board	Yes	Yes		
38.	Board with listed services, opening times and emergency contacts	Yes	Yes		
39.	Fuel operated generator	Yes	Yes		
40.	Pharmacy	Yes	Yes		
41.	Main stores for medicines	Yes	Yes		
42.	Main stores for non-medical items	Yes	Yes		
43.	Public washroom	Yes	Yes		
44.	Drinking Water dispensers	Yes	Yes		
45.	Parking area (with shades) for staff and visitors	Yes	Yes		

Essential Human Resources for Health

Human Resources for Health (HRH) play 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 HUMAN RESOURCES FOR HEALTH					
		Yes / No				
Sr. No.	HRH	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus (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 (Senior)		
2.	Gynaecologist/ Obstetrician (optional)	0	PG students on rotation	1		
3.	Medical Specialist (optional)	0	0	1		
4.	District/ General Surgeon (optional)	0	0	1		
5.	Paediatrician, Eye and ENT specialist (optional)	0	0	(on rotation)		
6.	Male Medical Officer	1	2	3		
7.	Women Medical Officer	0	2	3		
8.	Medico-legal Officer	0	0	1		
9.	Dental Surgeon	0	0	1		
10.	Head Nurse	0	0	1		
11.	Staff Nurse	0	2	6		
12.	Lady Health Visitor/ Midwife/ FWW	1	3	3		
13.	Vaccinator	2	2	2		
14.	CDC/ Environmental technician	1	1	1		
15.	Health Technician/	1	2	3		
	Medical Assistant					
16.	Dental Technician	0	1	1		
17.	Dispenser/ Dresser	1	2	2		
18.	Mortuary attendant	0	0	1		
19.	OT Technician	0	0	3		
20.	Lab Technician	0	2	2		
21.	Radiography Technician	0	2	2		
22.	Microscopist	0	0	1		
23.	Data Entry Operator	1	2	3		
24.	Lower Division Clerk	0	0	1		
	Population Welfare (HPN) Councillor	2	3	3		
	Lady Health Supervisor & Driver	,	As per LHWP standards			
	Storekeeper	0	0	1		
	Ward boy	0	0	3		
	Generator/ Fog machine operator	0	0	1		
	Driver	1 (if ambulance)	3	3		
	Dai/Aya	0	3	3		
-	Cook & Tandorchi*	0	0	4		
	Washer for Laundry*	0	0	2		
	Naib Qasid / Sanitary Patrol	1	2	4		
	Mali	1	1	2		
	Chowkidar	2	2	3		
37.	Sanitary worker*	1	2	3		

 $[\]ensuremath{^{*}}$ Cooking, Washing and Sanitary services may be contracted out.

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

		Yes	Yes / No	
Sr. No.	HRH	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital	
	Management Staff			
1. Superintendent		Yes	Yes	
2. Additional Superintende	nt	No	Yes	
3. Deputy Superintendent		Yes	Yes	

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

	FIRST LEVEL HOSPI	TAL HUMAN RESOURCES	FOR HEALTH		
			Yes / No		
Sr. No.		UBU	Tehsil Headquarter District Head Hospital / Hospital /		
		HRH	<50 bedded Private Hospital	bedded Private Hospital	
		Specialists	поѕрітаі	ноѕрітаі	
4.	Medical Specialist/ District Physician		Yes	Yes	
5.	Paediatrician + Lactation Consultant		No	Yes	
6.	Cardiologist		No	Yes	
7.	Dermatologist		No	Yes	
8.	Neurologist		No	Yes	
9.	Nephrologist		No	Yes	
10.	T.B. & Chest Specialist (Pulmonologist)		No	Yes	
11.	Psychiatrist		Yes	Yes	
12.	Clinical Psychologist		No	Yes	
13.	Forensic Expert		No	Yes	
14.	Emergency Specialist		No	Yes	
15.	Trauma Surgeon		No	Yes	
16.	General Surgeon / District Surgeon		Yes	Yes	
17.	Gynaecologist/ Obstetrician		Yes	Yes	
18.	0		No	Yes	
19.	Urologist		No	Yes	
20.	Orthopaedic surgeon		No	Yes	
21.	Anaesthetist		Yes	Yes	
22.	ENT Specialist		No	Yes	
23.	Ophthalmologist		No	Yes	
24.			No	Yes	
25.	Radiologist		No	Yes	
26.	Blood Transfusion Officer		No	Yes	
		Medical and Dental Staff	.,	.,	
27.	Senior Medical Officers		Yes	Yes	
28.	Medical Officers (MO)		Yes	Yes	
29.	Causality Medical Officers & Reliever		Yes	Yes	
30.	WMOs for Labour room &Relievers		Yes	Yes	
31.	MOs (Intensive Care)		Yes	Yes	
32.	Medicolegal Officer		Yes	Yes	
33.	Dental Surgeon	No	Yes	Yes	
24	No contract Communication of a contract	Nursing Staff	V	V	
	Nursing Superintendent		Yes	Yes	
35.	Nursing Deputy Superintendent		Yes	Yes	
36.			Yes	Yes	
37.	Charge Nurses	Non-Medical Staff	Yes	Yes	
20	Budget & Assounts Officer	Non-Medical Staff	Voc	Vos	
38. 20	Budget & Accounts Officer Accountant		Yes	Yes	
	Social Welfare Officer		Yes	Yes	
40. 41.			Yes Yes	Yes Yes	
	Physiotherapist		Yes	Yes	
42. 43.			Yes	Yes	
	Statistical specialist		Yes	Yes	
44. 45.	Epidemiologist		Yes	Yes	
45. 46.	Computer/ Data Entry Operators		Yes	Yes	
47.			Yes	Yes	
	•	Para-Medical Staff			
48.	Radiographer	raia-ivieultai Stall	Yes	Yes	
40. 49.			Yes	Yes	
49. 50.	Lab technicians		Yes	Yes	
	Lab Technician for blood transfusion		No	Yes	
٥1.	csca. for blood datisfusion				

FIRST LEVEL HOSPITAL HUMAN RESOURCES FOR HEALTH					
		Yes	Yes / No		
Sr. I	No. HRH	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
52.	CDC/Environmental technicians (INCENERATOR MAN)	Yes	Yes		
53.	Eye Technician/Optician	Yes	Yes		
54.	Lab Assistants	Yes	Yes		
55.	Ophthalmic Technician	Yes	Yes		
56.	Biomedical Technicians	Yes	Yes		
57.	Microscopists	Yes	Yes		
58.	Speech Therapist	No	Yes		
59.	ECG Technician	Yes	Yes		
60.	Operation Theatre technicians	Yes	Yes		
61.	Lady Health Visitors/Midwives	Yes	Yes		
62.	Dispensers / dressers	Yes	Yes		
63.	Vaccinators	Yes	Yes		
	Support Staff				
64.	Head Clerk	No	Yes		
65.	Senior Clerk	Yes	Yes		
66.	Lower Division Clerk	Yes	Yes		
67.	Storekeeper	Yes	Yes		
68.	Ward boy	Yes	Yes		
69.	Generator / Fog machine Operator	Yes	Yes		
70.	Water Carrier	Yes	Yes		
71.	Cashier	Yes	Yes		
72.	Baildar	Yes	Yes		
73.	Carpenter	Yes	Yes		
74.	Plumber	Yes	Yes		
75.	Almoner	Yes	Yes		
76.	Chowkidar	Yes	Yes		
77.	Telephone Operator	Yes	Yes		
78.	Physiotherapy Aide / technician	Yes	Yes		
79.	Stretcher Bearer	Yes	Yes		
80.	Ambulance Driver	Yes	Yes		
81.	Statistical Assistant	Yes	Yes		
82.	Operation Theatre Attendants	Yes	Yes		
83.	Sanitary Inspector/ Patrol	Yes	Yes		
84.	Lab Attendants	Yes	Yes		
85.		Yes	Yes		
86.	Ward Cleaners	Yes	Yes		
87.	Electrician	Yes	Yes		
88.	Air Conditioner Technicians	Yes	Yes		
89.	Tailor	Yes	Yes		
90.	Dhobi/Washerman	Yes	Yes		

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

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

⁻ Number of staff positions will vary as per sanctioned list

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 For other community level interventions Tab Paracetamol Vaccine along with auto-destructible syringes and cold Syrup Paracetamol BCG Vaccine Syrup Amoxicillin Tab Mebendazole Oral Polio Vaccine Injectable Polio Vaccine ORS (Sachet) Hepatitis B Vaccine Eye ointment Measles Vaccine Tab. Ferrous salt + Folic Acid Tetanus Toxoid Syrup Zinc Pentavalent Vaccine Syrup B complex o Pneumococcal Vaccine Benzyl Benzoate Lotion Rota vaccine - Condoms Clean Delivery kits (for LHV) Oral Contraceptive Pills/ emergency pill - Vitamin A Injectable contraceptive (Depo Provera) with syringes Deworming medicines Antiseptic Lotion Medicines and supplies for high-risk populations Cotton Bandages - (RUSF provision at community level to be explored Cotton roll

Following groups of essential medicines have been proposed at the 8/6 BHUs, 24/7 BHUs Plus, 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

especially in food insecure areas)

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.

Essentia	Faui	nmeni	t at Co	ommuni	tv	evel
Losciffia	Lqui	Pilicin	i di Ci	omminam.	٠y	LCVCI

- LHW Kit Bag Weighing machine (salter) Stethoscope Weighing machine (Adult)

BP Apparatus (Dial) - Mid upper arm circumference (MUAC) tape

- Thermometer Clinical/ Infra-red thermometer - Plain 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

Dilatation & Curettage (D&C) set

Caesarean section set

Indoor equipment including hospital beds

- Procedure room

Operation theatre

- Dental unit

Lab equipment and reagents

Linen Transport

Miscellaneous including furniture

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 in-charge 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 (BHU Plus), 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 meetings 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.

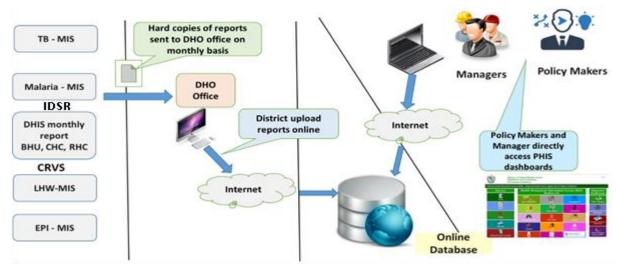
For getting Patient/ Client opinion and feedback on the LHW service provision, LHS can use her checklist or informal discussion to ensure feedback from some community members. At the PHC centre level, different options for opinion/ feedback from patients/ clients could be by fixing a complaint box in 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, closedtoe 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 <u>electric autoclave</u>, <u>non-electric autoclave</u>, <u>electric dry heat sterilizer</u>, <u>electric boiler/steamer</u>, <u>non-electric boiler/steamer and chemical HLD</u>. 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 allaina /Garantia	8/6 BHU (Rural)	24/7 BHU Plus (Rural)	24/7 RHC (Rural)
No.	Medicine/Supplies	Dispensary (Urban)	Medical Centre (Urban)	Health Centre (Urban)
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)
		Anaesthetic	· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,
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	Anaphylaxis)	
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
23.	Inj. Hydrocortisone 100mg	Yes	Yes	Yes
24.	Tab. Prednisolone 5mg	Yes	Yes	Yes
		Antidotes 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 A	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
	1	Antibiotics/An		
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	Yes	Yes	Yes

		Availability (Yes/No)			
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
	Suspension) 250 mg				
44.	Ampicillin (Powder for	Yes	Yes	Yes	
	Suspension) 500 mg				
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	
		Anti-Helm	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	1		
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	
86.	Tab. Ethambutol + Isoniazid + Rifampicin	No	Yes	Yes	

		Availability (Yes/No)			
Sr.	Madiaina /Sumplies	8/6 BHU (Rural)	24/7 BHU Plus (Rural)	24/7 RHC (Rural)	
No.	Medicine/Supplies	Dispensary (Urban)	Medical Centre (Urban)	Health Centre (Urban)	
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)	
		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	
	L	Anti-Ma			
91.	Tab. Chloroquine	No	Yes	Yes	
92.	Syp. Chloroquine Tab. Sulfadoxine +	No	Yes	Yes	
93.	Pyrimethamine	No	No	Yes	
94.	Tab. Artesunate + Sulfadoxine + Pyrimethamine	Yes	Yes	Yes	
95.	Artemether (Ampule)	No	Yes	Yes	
JJ.	Accinetici (Ampule)	GIT Med		103	
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	
108.	Tab. Bisacodyl	Yes	Yes	Yes	
109.	Glycerine (Suppository)	Yes	Yes	Yes	
440	[a] 17 1 1 (a 1 li	Cardiovascular			
110.	Glyceryl Trinitrate (Sublingual)	Yes	Yes	Yes	
111.	Isosorbide Dinitrate (Sublingual)	Yes	Yes	Yes	
112. 113.	Tab. Enalapril Tab. Atenolol 50 mg	No Yes	No 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 Affecti			
122.	Inj. Tranexamic Acid 500 mg	Yes	Yes	Yes	
123.	Cap. Tranexamic Acid 500 mg	Yes	Yes	Yes	
124	Tab Misaprostal	Oxytocic M		Voc	
124. 125.	Tab. Misoprostol Inj. Oxytocin	Yes Yes	Yes Yes	Yes Yes	
123.	ing. Oxytocin	Respiratory I		162	
126.	Tab. Salbutamol 4 mg	Yes	Yes	Yes	
127.	Salbutamol (Inhaler)	Yes	Yes	Yes	
	Ammonium Chloride+				
128.	Anninomani cinomaci	Yes	Yes	Yes	

	Availability (Yes/No)				
Sr.	Mandiaina (Complian	8/6 BHU (Rural)	24/7 BHU Plus (Rural)	24/7 RHC (Rural)	
No.	Medicine/Supplies	Dispensary (Urban)	Medical Centre (Urban)	Health Centre (Urban)	
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)	
	Diphenhydramine + Sodium				
	Citrate (Antitussive Expectorant)				
129.	Inj. Aminophylline	Yes	Yes	Yes	
130.	Oxygen Cylinder	Yes	Yes	Yes	
	O FO/ Chloropophopical/Fire	Ophthalmic N	viedicines		
131.	0.5% Chloramphenicol (Eye Drops)	Yes	Yes	Yes	
132.	Ciprofloxacin (Eye Drops)	No	Yes	Yes	
	Betamethasone 0.5% w/v				
133.	Neomycin eye drops	Yes	Yes	Yes	
134.	Tetracycline (Eye Ointment)	Yes	Yes	Yes	
	,	ENT Med			
135.	Boroglycerine (Ear Drops)	Yes	Yes	Yes	
136.	Polymyxin B + Lignocaine (Ear	Yes	Yes	Yes	
137.	Drops) Ciprofloxacin (Ear Drops)	Voc	Yes	Yes	
137. 138.	Xylometazoline (Nasal Drops)	Yes No	Yes	Yes	
130.	Kylometazoline (Nasai Drops)	I/V Infusions (Plasi		res	
	Plasma Expander (Infusion)	1/ 4 11114310113 (1 1431	,		
139.	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	
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	
		Vitamins, 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. 154.	Syp. Ferrous fumarate	Yes	Yes	Yes	
154. 155.	Tab. Folic Acid Tab. Ferrous salt + Folic Acid	No Yes	Yes Yes	Yes Yes	
155. 156.	Inj. Vitamin K	No No	Yes	Yes	
157.	Tab. /Cap. Retinol (Vitamin A)	Yes	Yes	Yes	
158.	after NIDs Tab. Zinc Sulphate	Yes	Yes	Yes	
158. 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	
166.	Betamethasone Cream/ Lotion	Yes	Yes	Yes	
167.	Calamine Lotion	Yes	Yes	Yes	
168.	Hydrocortisone Cream	Yes	Yes	Yes	

		Availability (Yes/No)			
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban)	24/7 BHU Plus (Rural) Medical Centre (Urban)	24/7 RHC (Rural) Health Centre (Urban)	
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)	
169.	Polymyxin B + Bacitracin Zinc (Ointment)	Yes	Yes	Yes	
170.	Silver Sulfadiazine Cream	Yes	Yes	Yes	
171.	Sodium Thiosulfate (Solution)	No	No	Yes	
170			oural Disorders & Tranquilizers		
172. 173.	Inj. Chlorpromazine	No	Yes	Yes	
173. 174.	Tab. Clomipramine Tab. Haloperidol	No No	Yes Yes	Yes Yes	
174. 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	
177.	145.74p142014111 0.5111g	Anxioly		163	
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	
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 a	nd 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. 195.	Measles Vaccine	Yes	Yes	Yes Yes	
195. 196.	Tetanus Toxoid Pentavalent Vaccine	Yes Yes	Yes Yes	Yes	
196. 197.	Pneumococcal Vaccine	Yes	Yes	Yes	
197. 198.	Rota vaccine	Yes	Yes	Yes	
199.	Anti-Rabies Vaccines (PVRV)	No	No	Yes	
200.	Anti-Snake Venom Serum	No	No	Yes	
	<u> </u>	Disposables/Antisept			
201.	Syringe 1 ml (Disposable)	Yes	Yes	Yes	
	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	
206.	Syringe 50 ml (Disposable)	Yes	Yes	Yes	
207.	IV Set	Yes	Yes	Yes	

	Availability (Yes/No)			
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
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
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

	Medicine/Supplies	Availability (Yes/No)	
Sr. No.		Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 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 (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

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter	District Headquarter	
	201 Weekly 11	Hospital /	Hospital /	
17.	Tab: Paracetamol 325mg	<50 bedded Private Hospital Yes	Yes	
18.	Tab. Paracetamol 500 mg	Yes	Yes	
19.	Tab: Paracetamol 300 mg	Yes	Yes	
	Syp. Paracetamol	Yes	Yes	
	Inj. Paracetamol	No	Yes	
	Inj. Nalbuphine	Yes	Yes	
	Inj. Toradol	Yes	Yes	
	Inj. Kinz 0.1 mg	No	Yes	
	Anti-Allergic (Anaphylaxis)			
25.	Tab. Chlorpheniramine	Yes	Yes	
	Inj. Chlorpheniramine	Yes	Yes	
27.	Inj. Promethazine 25mg	No	Yes	
28.	Syp. Chlorpheniramine	Yes	Yes	
29.	Tab. Loratadine	No	Yes	
	Syp. Loratadine	No	Yes	
	Inj. Dexamethasone	Yes	Yes	
32.	Tab. Dexamethasone	Yes	Yes	
	Epinephrine (Ampule)	Yes	Yes	
	Inj. Hydrocortisone	Yes	Yes	
35.	Tab. Prednisolone	Yes	Yes	
	Antidotes and other substances used in			
	Atropine (Ampule)	Yes	Yes	
37.	Charcoal Activated (Powder)	Yes	Yes	
	Inj. Diazepam	Yes	Yes	
39.	Naloxone (Ampule)	No	Yes	
40	Anti-Epileptics /Anticonvulsar		Vas	
40.	Tab. Carbamazepine Syp. Carbamazepine	No No	Yes Yes	
	Inj. Magnesium Sulphate (50%)	Yes	Yes	
43.	Tab. Phenobarbital	No	Yes	
	Inj. Phenobarbital	No	Yes	
45.	Tab. Phenytoin	No	Yes	
46.	Tab: Leviteracetam 500mg	No	Yes	
40.	Antibiotics/Antimicrobi		163	
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	
	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	
	Inj. Amikacin 15mg	No	Yes	
	Inj Clindamycin	No	Yes	
	Inj. Ampicillin 500 mg	No	Yes	
	Inj. Benzathine Penicillin 6lakh unit	Yes	Yes	
	Inj. Benzathine Penicillin 12lakh unit	Yes	Yes	
62.	Tab: Penicillin V potassium 125 mg	No	Yes	
	Inj. Cefazoline 2 g	No	Yes	
	Inj. Ceftriaxone 80mg	No	Yes	
	Inj. Cefoxitine 2g	No	Yes	
66.	Inj.Cefotaxime 50mg	No	Yes	

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter	District Headquarter
	37344	Hospital / <50 bedded Private Hospital	Hospital /
67.	Cap. Cefixime	No	Yes
68.	Tab. Ciprofloxacin 250 mg	Yes	Yes
69.	Tab. Ciprofloxacin 500 mg	Yes	Yes
	Syp. Ciprofloxacin 250 mg	Yes	Yes
	Inj. Ethionamide 250mg	No	Yes
	Inj. Prothionamide 250 mg	No	Yes
	Cap. Azithromycin	No	Yes
	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
	Inj. Benzylpenicillin 50,000 units	No	Yes
	Inj. Cloxacillin 50mg	No	Yes
	Inj. Moxifloxacin 400mg	No	Yes
	Inj. Piperacillin	No	Yes
	Inj. Tazobactum	No	Yes
	Inj. Gatifloxacin 400mg	No	Yes
	Inj. Chloramphenicol 25mg/kg	No	Yes
	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
	Inj. Procaine penicillin	Yes	Yes
95.	Tab. Phenoxymethylpenicillin	No	Yes
96.	Anti-Helminthic Tab. Mebendazole	Yes	Vac
97.	Tab. Flagyl	Yes	Yes Yes
	Inj. Flagyl	Yes	Yes
99.	Tab. Pyrantel	Yes	Yes
	Syp. Pyrantel	Yes	Yes
100.	Anti-Fungal	103	103
101.	Clotrimazole (Vaginal Cream)	No	Yes
	Clotrimazole (Vaginal Tablet)	Yes	Yes
	Clotrimazole (Topical Cream)	Yes	Yes
104.	Tab. Nystatin	Yes	Yes
	Nystatin (Drops)	Yes	Yes
	Antivirals		
106.	Tenofovir 300mg	No	Yes
	Entecavir 0.5 mg	No	Yes
108.	Sofosbuvir 400 mg	No	Yes
109.	Daclatasvir 60mg	No	Yes
	Anti-Tuberculosis Drugs		
110.	Tab. Ethambutol	No	Yes
111.	Ethambutol (Oral Liquid)	No	Yes
112.	Tab. Isoniazid	No	Yes
113.	Syp. Isoniazid	No	Yes
	Tab. Pyrazinamide	No	Yes
	Cap. Rifampicin	No	Yes
116.	Syp. Rifampicin	No	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital /	
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	
130.	Inj. Capreomycin 1000mg	No	Yes	
	Anti-Diabetics	-		
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	
154.	Anti-Malarial	163	103	
135.	Tab. Chloroquine	No	Yes	
	Syp. Chloroquine	No	Yes	
137.	Tab. Artemether + lumefantrine	No	Yes	
138.	Tab. Artesunate + Sulfadoxine + Pyrimethamine	Yes	Yes	
139.	Artemether (Ampule)	No	Yes	
139.	GIT Medicines	INO	163	
140.	Inj. Hyoscine	Yes	Yes	
141.	Tab. Hyoscine	Yes	Yes	
142.	Inj. Zantac	Yes	Yes	
	Tab. Zantac 150mg	Yes	Yes	
144.	Tab. Metoclopramide	Yes	Yes	
	Syp. Metoclopramide	Yes	Yes	
	Inj. Metoclopramide		Yes	
146.		Yes Yes	Yes	
	Cap. Omeprazole 40 mg	•		
	Inj. Omeprazole	Yes	Yes	
149.	Tab. Esomeprazole	Yes	Yes	
150.	Cap. Esomeprazole	Yes	Yes	
151.	Tab. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	
-	Syp. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	
153.	Antacid Sodium citarate 30ml	Yes	Yes	
154.	Magnesium trisilicate 300 mg	Yes	Yes	
155.	ORS (Sachet)	Yes	Yes	
156.	Tab. Bisacodyl	Yes	Yes	
157.	Glycerine (Suppository)	Yes	Yes	
	Cardiovascular Medicin		T	
	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	

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter	District Headquarter
		Hospital /	Hospital /
167	Tab Cantonvil 25 mg	<50 bedded Private Hospital	>50 bedded Private Hospital Yes
167. 168.	Tab. Captopril 25 mg Tab. Amlodipine 5 mg	No No	Yes
169.	Tab. Simvastatin 40mg	No	Yes
	Inj. Dobutamine: 10ug	No	Yes
	Inj. dopamine; 40 mg: 10ug	No	Yes
	Inj. Amiodarone 200mg	No	Yes
	Inj. Adenosine 6mg	No	Yes
	Inj. Verapamil 5mg	No	Yes
	Inj. Atenolol 2.5 mg	No	Yes
	Inj. Verapamil 20mg	No	Yes
	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
	Inj. Procainamide 20-25mg	No	Yes
	Inj. Sotalol 100mg	No	Yes
184.	Tab. Nitroglycerin 0.4mg	No	Yes
185.	Tab. Diltiazem 0.25mg	No	Yes
	Medicines Affecting Coagulati	ion	
186.	Inj. Tranexamic Acid 500 mg	Yes	Yes
187.	Cap. Tranexamic Acid 500 mg	Yes	Yes
	Oxytocic Medicines		
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 Medicines		
193.	Tab. Salbutamol 4 mg	Yes	Yes
	Salbutamol (Inhaler)	Yes	Yes
	Ipratropium 500ug	No	Yes
195.	Ammonium Chloride+ Chloroform + Menthol + Diphenhydramine +	Yes	Yes
	Sodium Citrate (Antitussive Expectorant)		163
	Oral Prednisolone 30mg	Yes	Yes
	Inj. Aminophylline	Yes	Yes
198.	Oxygen Cylinder	Yes	Yes
	Ophthalmic Medicines	T	
	0.5% Chloramphenicol (Eye Drops)	Yes	Yes
	Ciprofloxacin (Eye Drops)	No	Yes
	Betamethasone 0.5% w/v Neomycin eye drops	Yes	Yes
202.	Tetracycline (Eye Ointment)	Yes	Yes
203.	Tobramycin 0.3%	No	Yes
20:	ENT Medicines	.,	.,
	Boroglycerine (Ear Drops)	Yes	Yes
	Polymyxin B + Lignocaine (Ear Drops)	Yes	Yes
	Ciprofloxacin (Ear Drops)	Yes	Yes
207.	Xylometazoline (Nasal Drops)	No	Yes
200	Antirheumatics Drugs	NJ -	Ve-
208.	Tab. Methotrexate 7.5 mg	No No	Yes
209.	Tab. Hydroxychloroquine 400mg	No No	Yes
210.	Tab. Leflunomide 10mg/20mg	No No	Yes
211. 212.	Sulfasalazine 1500mg-3000mg Tab. Prednisolone OR (suspension)	No No	Yes
Z1Z.	rab. Preunsolone Ok (suspension)	No	Yes

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital /	District Headquarter Hospital / >50 bedded Private Hospital
	I/V Infusions (Plasma Substitu	•	
213.	Plasma Expander (Infusion) 1000ml	No	Yes
214.	Glucose/Dextrose (Infusion) 1000ml	Yes	Yes
215.	Glucose/Dextrose (Ampule)	Yes	Yes
216.	Normal Saline (Infusion) 1000ml	Yes	Yes
217.	Dextrose + Saline (Infusion) 1000ml	Yes	Yes
218.	Ringer's Lactate (Infusion) 500ml	Yes	Yes
219.	Potassium Chloride (Solution) not in drip	Yes	Yes
	Inj. Sodium Bicarbonate	No	Yes
	Water for Injection (Ampule) not in drip	Yes	Yes
222.	Blood Products (Packed RBCs, Fresh Frozen Plasma Units)	No	Yes
	Vitamins, Minerals and Food sup	pplements	T
223.	Tab. Ascorbic Acid 500 mg	Yes	Yes
	Inj. Calcium Gluconate	Yes	Yes
	Tab. Calcium 100 mg	Yes	Yes
	Tab. Ergocalciferol (Vit. D)	Yes	Yes
	Tab. Ferrous fumarate	No	Yes
	Syp. Ferrous fumarate	Yes	Yes
	Tab. Folic Acid	No	Yes
	Tab. Ferrous salt + Folic Acid	Yes	Yes
	Inj. Vitamin K	No	Yes
	Vitamin A Supplement	No	Yes
232.	Tab. /Cap. Retinol (Vitamin A) after NIDs	Yes	Yes
233.	Tab. Zinc Sulphate	Yes	Yes
	Syrup Zinc	Yes	Yes
	Tab: Alendronate	No	Yes
236.	Tab. B Complex	Yes	Yes
	Tab. Multivitamins	Yes	Yes
	Multiple Micronutrients (Sachet)	Yes	Yes
	Ready to Use Treatment Food	Yes	Yes
240.	F100 and F75	No	Yes
	Dermatological		T
	Benzyl Benzoate Lotion	Yes	Yes
	Betamethasone Cream/ Lotion	Yes	Yes
	Calamine Lotion	Yes	Yes
	Hydrocortisone Cream	Yes	Yes
245.	Polymyxin B + Bacitracin Zinc (Ointment)	Yes	Yes
246.	Silver Sulfadiazine Cream	Yes	Yes
	Medicines for Mental and Behavioural Disc	•	T
	Inj. Chlorpromazine	No	Yes
	Tab. Clomipramine	No	Yes
	Tab. Haloperidol	No	Yes
	Tab. Diazepam 2 mg	Yes	Yes
	Inj. Diazepam 10 mg	Yes	Yes
252.	Tab. Alprazolam 0.5 mg	No	Yes
252	Anxiolytics	V	V
	Tab. Alprazolam 0.5 mg	Yes	Yes
254.	Tab. Diazepam 2 mg	Yes	Yes
255	Contraceptives	Vaa	V
	Condoms Ethypylestradial - Nerothictorope (Combined Oral Bills)	Yes	Yes
	Ethynylestradiol + Norethisterone (Combined Oral Pills)	Yes	Yes
	Progesterone Only Pills (Levonorgestrel)	Yes	Yes
258.	Emergency Contraceptive Pills (Levonorgestrel)	Yes	Yes
259.	IUCD (Copper T/Multiload)	Yes	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 hedded Private Hospital	
260.	Inj. Medroxyprogesterone Acetate (Dmpa)	Yes	Yes	
	Inj. Norethisterone Enanthate (Net-En)	Yes	Yes	
	Inj. Estradiol Cypionate + Medroxyprogesterone Acetate	Yes	Yes	
	Levonorgestrel-Releasing Implant (Subdermal)	No	Yes	
	Etonogestrel-Releasing Implant (Subdermal)	No	Yes	
	Vaccines and Sera	l		
265.	BCG Vaccine	Yes	Yes	
266.	Oral Polio Vaccine	Yes	Yes	
267.	Injectable Polio Vaccine	Yes	Yes	
268.	Hepatitis B Vaccine	Yes	Yes	
269.	Measles Vaccine	Yes	Yes	
270.	Tetanus Toxoid	Yes	Yes	
271.	Pentavalent Vaccine	Yes	Yes	
272.	Pneumococcal Vaccine	Yes	Yes	
273.	Rota vaccine	Yes	Yes	
274.	Anti-Rabies Vaccines (PVRV)	No	Yes	
275.	Anti-Snake Venom Serum	No	Yes	
	Disposables/Antiseptics/ Disinfe	ctants		
276.	Syringe 1 ml (Disposable)	Yes	Yes	
277.	Syringe 3 ml (Disposable)	Yes	Yes	
278.	Syringe 5 ml (Disposable)	Yes	Yes	
279.	Syringe 10 ml (Disposable)	Yes	Yes	
280.	Syringe 20 ml (Disposable)	Yes	Yes	
281.	Syringe 50 ml (Disposable)	Yes	Yes	
282.	IV Set	Yes	Yes	
	Scalp Vein Set	Yes	Yes	
284.	Volumetric Chamber (IV Burette)	Yes	Yes	
	IV Cannula (18, 20,22 & 24G)	Yes	Yes	
286.	Adhesive Tape	Yes	Yes	
287.	Sterile Gauze Dressing	Yes	Yes	
	Paper tape	No	Yes	
	Antiseptic Lotion	Yes	Yes	
	Cotton Bandage (3", 4" & 6")	Yes	Yes	
	Absorbent Cotton Wool	Yes	Yes	
	Crepe Bandage	Yes	Yes	
	Examination Gloves (All sizes)	Yes	Yes	
	Sterile Surgical Gloves (All sizes)	Yes	Yes	
	Silk Sutures Sterile (2/0, 3/0, 4/0) with needle	Yes	Yes	
	Chromic Catgut Sterile Sutures (different sizes) with needle	Yes	Yes	
	Face Mask Disposable / Personal Protective Equipment	Yes	Yes	
	Blood Lancets	Yes	Yes	
	Slides	Yes	Yes	
	Endotracheal Tube (different sizes)	Yes	Yes	
	Nasogastric Tube (different sizes)	Yes	Yes	
	Resuscitator Bag with Mask	Yes	Yes	
303.	Disposable Airways (different sizes)	Yes	Yes	
304.	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 Plus Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban) Nursing Home (Pvt)
		Emergency & Routi	ne	
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
2.4		wth Monitoring / Labo		Voc
24. 25.	Soap and soap tray	Yes Yes	Yes	Yes
25. 26.	Weighing machine (salter) Weighing machine (Adult)		Yes	Yes
27.	Weighing machine (Adult) Weighing machine (tray)	Yes Yes	Yes 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
	Delivery set (each contain)			
34.	Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps 1 Kidney Tray Needle Holder 7 inch	No	Yes	Yes
	Medium size Bowl Outlet Forceps 8 inch			
		D&C set (each Conta	in)	
35.	Metallic Catheter Uterine Sound	Yes	Yes	Yes

Sr. No.	Equipment/Supplies Name Sim's Speculum medium Set D&E Sponge Holders	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	Availability (Yes/No) 24/7 BHU Plus Medical Centre	RHC Health Centre
			(Urban) Medical centre (Pvt)	(Urban) Nursing Home (Pvt)
	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 Caes Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch	arean Section Set (each		Nursing Home (Pvt)
36.	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	No	No	Yes
	Torch with batteries	Inpatient (Beds/War	ds)	
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

		Availability (Yes/No)		
		0/6 01111/0 1)	24/7 BHU Plus	RHC
Sr.	Equipment/Supplies Name	8/6 BHU (Rural)	Medical Centre	Health Centre
No.		Dispensary (Urban)	(Urban)	(Urban)
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)
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
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 No	Yes	Yes
67.	BP handle	No	Yes	Yes
68.	BP Blades	No	Yes	Yes
69. 70.	Dissecting Forceps (Plain) Needle Holder (Large size)	No No	Yes	Yes Yes
71.	Sponge Holder Forceps (large)	No	Yes 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
87.	Spotlight	No	Yes	Yes
88.	Hand Scrub set with chemical	No	Yes	Yes
89.	Thermometer	No	Yes	Yes

			Availability (Yes/No)	
C.		o/c pull /pl)	24/7 BHU Plus	RHC
Sr.	Equipment/Supplies Name	8/6 BHU (Rural)	Medical Centre	Health Centre
No.		Dispensary (Urban)	(Urban)	(Urban)
		GP Clinic (Pvt)	Medical centre (Pvt)	Nursing Home (Pvt)
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
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 No	Yes	Yes
		ab Equipment and Rea	ĭ .	
118.	Centrifuge (Bench Top)	No	No	Yes
119.	Centrifuge Machine	No	No	Yes
120.	Stopwatch	No	Yes	Yes
121. 122.	Ice Lined Refrigerator (ILR) Small refrigerator	Yes Yes	Yes 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)			
		- 4	24/7 BHU Plus	RHC	
Sr.	Equipment/Supplies Name	8/6 BHU (Rural)	Medical Centre	Health Centre	
No.	Equipment, Supplies Hame	Dispensary (Urban)	(Urban)		
		GP Clinic (Pvt)	•	(Urban)	
			Medical centre (Pvt)	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	
L		Linen	T		
164.	Bedsheet	Yes	Yes	Yes	
165.	Pillow	Yes	Yes	Yes	
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	
1		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)	

			Availability (Yes/No)		
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Plus Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban) Nursing Home (Pvt)	
		(2 for patient waiting	(3 for patient waiting	(9 for patient waiting	
		area)	area and labor room)	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	
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	

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

		Availability (Yes/No)		
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital	
	Emergen	cy 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	
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 Monit	oring / 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	

Availal			lability (Yes/No)		
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
30.	Plain Scissors	Yes	Yes		
31.	Demonstration table	Yes	Yes		
32.	Delivery table (Labour Room)	Yes	Yes		
	Delivery set (each contain) Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps				
33.	1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch Macintosh sheets Torch with batteries	Yes	Yes		
		(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		
		ion 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 Obs/Gyne: General Set	Yes	Yes		

Availability (y (Yes/No)	Yes/No)	
Sr. No.	Equipment/Supplies/ Furniture		il Headquarter Hospital / ed Private Hospital		dquarter Hospital / d Private Hospital	
	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					
		ent (Beds/War	ds)			
36.	Bed with side table/locker		Yes		Yes	
37.	Electric Suction Machine		Yes		Yes	
38.	Electric Sterilizer Oven		Yes		Yes	
39.	Oxygen Cylinder with flowmeter and Stand		Yes		Yes	
40.	Stretcher		Yes		Yes	
41.	Examination Couch with wooden stairs		Yes		Yes	
42.	Wheelchair		Yes		Yes	
43.	Patient Screen		Yes		Yes	
44.	Air Ways (different sizes)		Yes		Yes	
45.	Suction Pump (Manual)		Yes	Yes		
46.	Drip Stand		Yes		Yes	
		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	
55.	McGill forceps	Yes	Yes	Yes	Yes	
56. 57.	Patient Trolley Oxygen Cylinder (large size with regulator)	Yes No	Yes Yes	Yes Yes	Yes Yes	
58.	Oxygen Cylinder (harge size with regulator) 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	

Availability (Yes				y (Yes/No)	'es/No)	
Sr. No.	. Equipment/Supplies/ Furniture		Tehsil Headquarter		District Headquarter Hospital /	
			Hospital / <50 bedded Private Hospital		>50 bedded Private Hospital	
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	
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. 99.	Generator Air-Conditioner (split 1.5 tons)	No Yes	Yes Yes	Yes Yes	Yes	
Dental Unit				Yes		
100	Double Chair	Dental Unit	Vaa		Vaa	
100.	Dental Chair		Yes Yes		Yes	
101. 102.	Light Torch with batteries		Yes	Yes Yes		
103.	Hand piece unit		Yes	Yes		
104.	Suction		Yes	Yes		
105.	Compressor		Yes	Yes		
106.	Dental hand instruments (set)		Yes	Yes		
107.	Aseptic Trolley		Yes	Yes		
108.	Dental Autoclave		Yes	Yes		
109.	Amalgamator		No		Yes	
110.	Dental X-ray unit		Yes	Yes		
111.	Intraoral X-ray film Processor		No	Yes		
112.	X-ray view box		No	Yes		
113.	Lead apron		Yes		Yes	
114.	Ultrasonic Scalar		No		Yes	
115.	Dental Operating stool		Yes		Yes	
116.	Ultraviolet sterilizer		No		Yes	
	·	ipment and Rea	igents			
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. 126.	X-ray illuminator Needle cutter/ Safety Boxes		Yes Yes		Yes Yes	
127.	Availability of Ultrasound & ECG Services		Yes		Yes	
127.	Laboratory Chemicals		Yes		Yes	
129.	Binocular Microscope		Yes		Yes	
123.	zosaiai itiloiosoope	1		1	. 55	

		Availability	Availability (Yes/No)		
Sr. No.	. Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
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. 141.	Jester Pipettes Adjustable – various sizes Sputum collection containers	Yes Yes	Yes Yes		
141.	Urine collection containers	Yes	Yes		
143.	Test tubes including blood sample tubes	Yes	Yes		
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. 161.	Glucometer and sticks Urine Testing kits	Yes Yes	Yes Yes		
162.	RDT for Malaria	Yes	Yes		
102.	NOT TOT Wataria	Linen	163		
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		
174		ransport Yes	Voc		
174.	Ambulance		Yes		
175. 176.	Jeep for field activities Motorcycle for field activities	No Yes	No Yes		
176.	LHS Vehicles (If LHWP functional at THQ/DHQ hospital)	Yes	Yes		
1//.		urniture	1 163		
170	Office tables		Voc		
178. 179.	Officer Chairs	Yes Yes	Yes Yes		
180.	Bench	Yes	Yes		
TQU.	DETIUI	res	res		

		Availability (Yes/No)	
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital / <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital
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	Yes
188.	Facility board/s	Yes	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



















Health Department GOVERNMENT OF BALOCHISTAN