

# **Provincial Minimum Service Standard Report for Primary & Secondary A Hospitals**

## **Karnali**

Utilizing the Minimum Service Standards to provide actionable steps to  
improve quality of care at government hospitals

## **2081 Calendar Year**

# Provincial Minimum Service Standard Report: **Karnali**

Utilizing the Minimum Service Standards to provide actionable steps to improve quality of care at government hospitals.

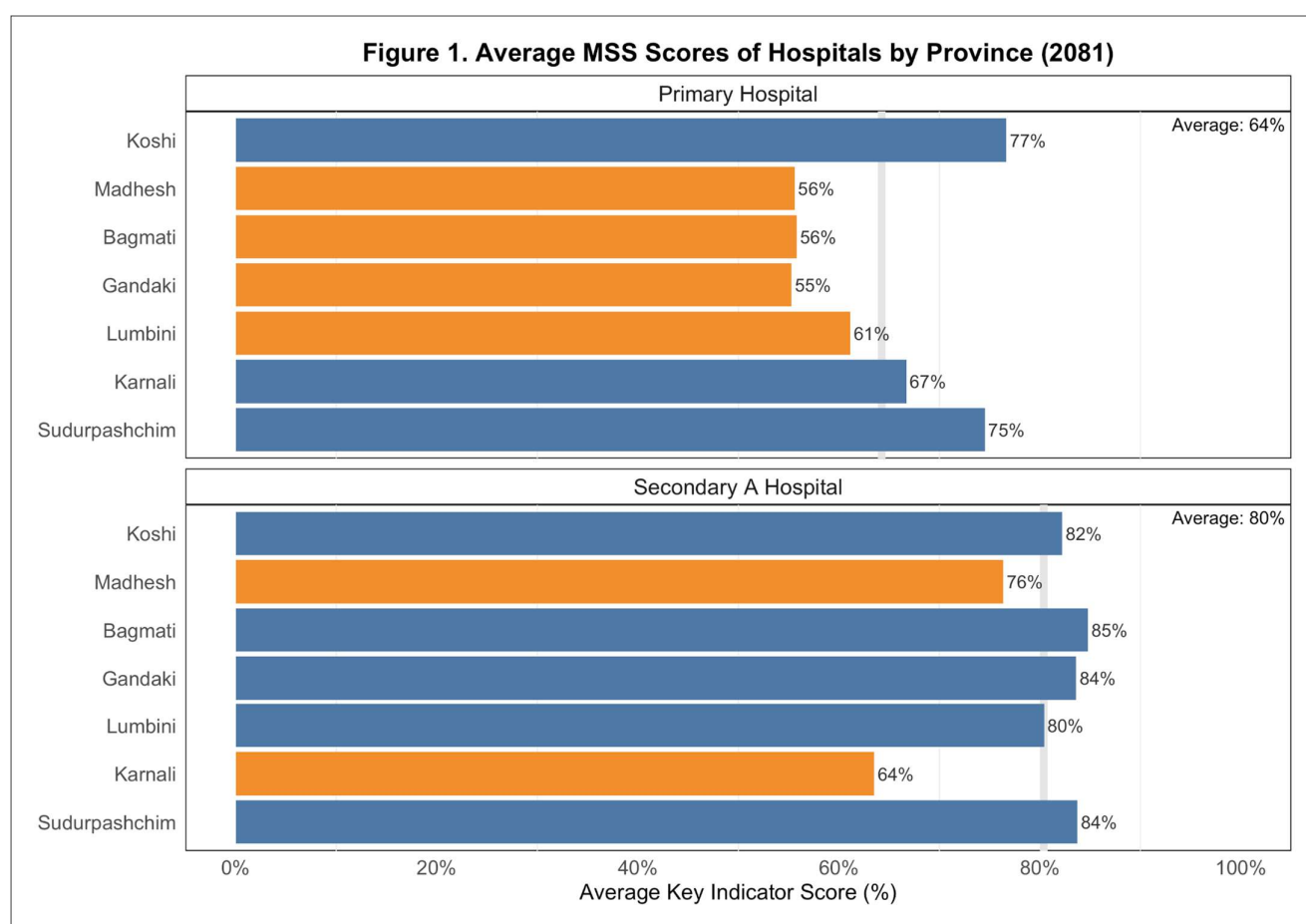
Nick Simons Institute

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## Executive Summary

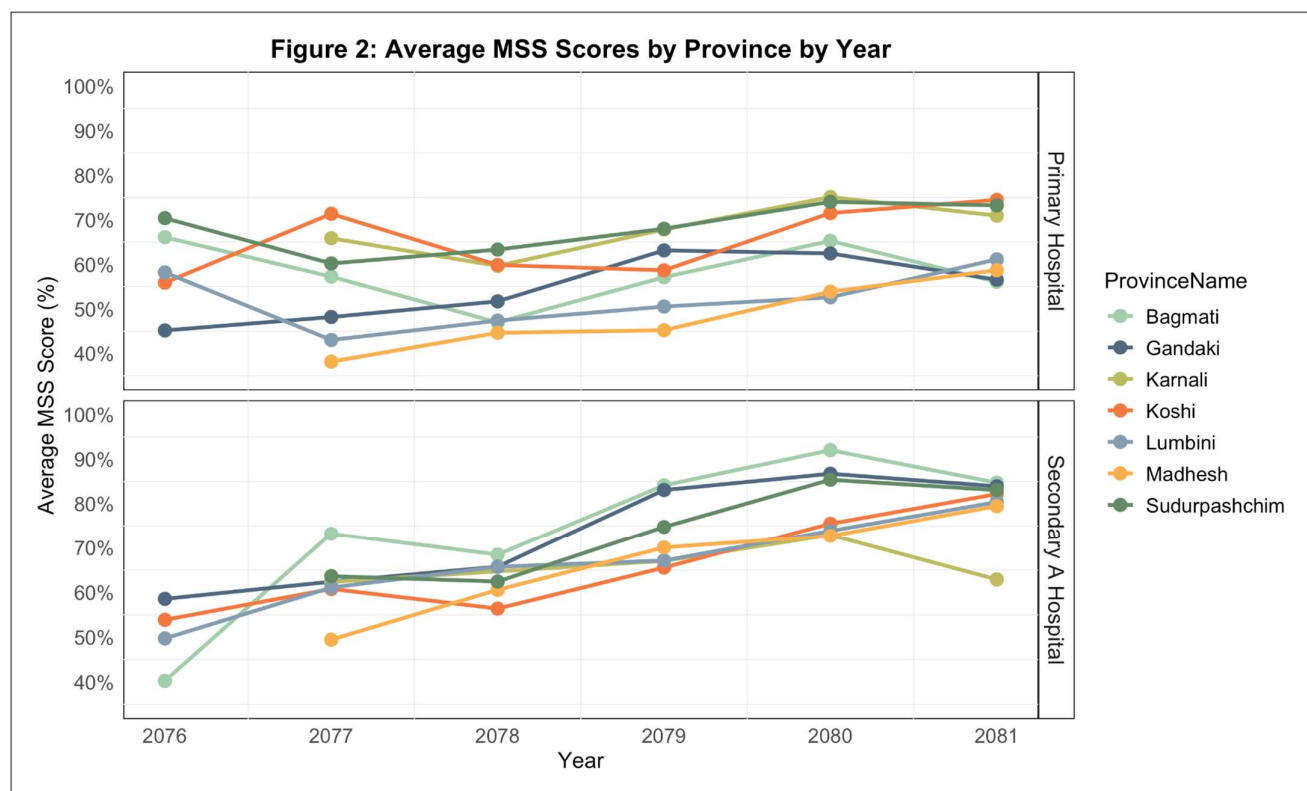
Ensuring equitable and high quality health care is a central goal of the Ministry of Health and Population (MoHP) of Nepal. In order to address the gaps in quality of hospitals, the Minimum Service Standards (MSS) was pioneered in 2014 under the Hospital Management Strengthening Program of the MoHP, with support from the Nick Simons Institute.

The purpose of this report is to recommend actionable steps to address gaps in the MSS in health facilities based on the most recent data from 2081 (01/01/2024 - 31/12/2024) (2080/09/13 - 2079/09/13) for 61 Primary hospitals and 40 Secondary A hospitals that have MSS assessments from the last calendar year. Six Primary hospitals and four Secondary A hospitals were excluded from analysis due to missing 2081 MSS assessments. Besides looking at all the MSS indicators, **Key Indicators (KI)** were selected that are foundational to a functioning hospital were selected and analyzed by province through an iterative process, detailed in Annex 1. There were 75 KIs at Primary Hospitals and 88 KIs at Secondary A hospitals due to a wider range of services.



**Figure 1.** Total Key Indicator Scores of Primary (n=61) and Secondary A (n=40) Scores by province. Orange shows below national average, blue shows above national average.

Progress has continued since MSS implementation, with Secondary A hospitals averaging 80% across key indicators (KIs) and Primary hospitals averaging 64%. However, this overall progress masks significant disparities across provinces, within provinces, and between hospital levels. Routine practice indicators, staffing, training, and governance remain the most underperforming categories nationwide. In contrast, digital systems and basic service availability (e.g., emergency care, family planning) are widely functional. Provinces like Koshi, Sudurpashchim, and Lumbini showed balanced improvements, prioritizing low-scoring hospitals, while Gandaki, Bagmati, and Karnali revealed critical gaps that warrant urgent intervention.



**Figure 2.** Average MSS Scores by Province over Time for Primary (n=61) and Secondary A (n=40) Hospitals. Color by province.

Primary hospitals continue to face structural and operational disadvantages. More than half of the Primary hospitals in Gandaki and Bagmati scored below 50%, with consistent underperformance in staffing, routine infection prevention, and training. Despite these challenges, Lumbini demonstrated success in lifting scores among their lowest-performing Primary hospitals, signaling the impact of equitable provincial investment. However, chronic issues such as poor waste segregation, limited evening OPD services, and low staff training persist nationwide. These trends suggest a need for resource redistribution, long term healthcare worker interventions, and hospital-level accountability mechanisms.

Secondary A hospitals generally performed better but also exhibited uneven progress. Provinces such as Lumbini and Bagmati maintained high standards (>90%), while Karnali experienced a marked decline of over 10% since 2080, seen especially in infection prevention and equipment availability. Staffing shortages in specialized roles, such as physiotherapy and anesthesia supervision, were common, and emergency preparedness (e.g., BLS/BLCS training and mock drills) remained inconsistent. However, diagnostics (e.g., 100% functional X-rays and 24 hour Emergency Room), and digitization are areas of strength.

#### Key Findings at a Glance

- Staffing is the most pressing national challenge, with low availability of nurses, anesthesiologists, and medical superintendents across all hospital levels and provinces.
- Training scores are lowest nationally, particularly in Basic Life Support (BLS), emergency drills, and disaster protocols, despite being low-cost interventions.
- Governance and waste management remain weak, especially in Primary hospitals, threatening service quality and safety. This may be an opportunity for federal support.
- Supplies and equipment have improved, particularly in Secondary A hospitals, but gaps remain in anesthesia, pediatric, and physiotherapy items.

- Koshi and Lumbini are models for equitable quality improvement, having improved low-performing Primary hospitals while maintaining high Secondary A performance.
- Gandaki, and Karnali require urgent provincial and federal support due to recent negative trends.

Below, Table 1 summarizes trends, gaps, and priorities for 2082 at the provincial level. Arrows indicate positive, negative, or no change from 2080. Note that MSS Standings are subjective, considering trends and outliers. For example, even though Lumbini has an average Secondary A score of 80%, the majority are sustained above 90% with a few outliers affecting the average. When moving forward, consider where provinces can learn from each other. For example, Karnali could learn from Sudurpashchim's success; and a similar partnership could develop between Madhesh and Lumbini. Both Bagmati and Gandaki could learn from Koshi's Primary hospital's success. Although large gaps remain, focus on areas of success and build on recent improvements while ensuring an equitable distribution of resources to ensure that all people have access to safe, affordable, and quality healthcare.

**Table 1. Provincial Summaries and Priority Actions for 2082**

| Province       | MSS Standing |              | Notable Trends                                                                                                                    | Notable Gaps                                                                                                                          | Priorities for 2082                                                                                        |
|----------------|--------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|                | Prim (n=61)  | Sec A (n=40) |                                                                                                                                   |                                                                                                                                       |                                                                                                            |
| Koshi          | High↑        | High↑        | Strong gains in Primary; consistently high Secondary; training improving.                                                         | Physiotherapy, blood bank, declining infrastructure in some Secondary A hospitals; routine practices at Pathari Nagar and Madi Nagar. | Scale physiotherapy, blood bank; address infrastructure at Secondary A hospitals.                          |
| Madhesh        | Very Low↓↓   | Low↑         | Primary sees mixed progress but significant declines; routine practices weak; Secondary A okay, but Siraha dropped by 29% to 67%. | Sanitation, waste management, staffing, training, governance.                                                                         | Target Bhardaha and Chandranigahpur for routine sanitation; strengthen governance; intervention at Siraha. |
| Bagmati        | Very Low↑    | Very High↓   | Major Primary deficits; Secondary strong but small decreases.                                                                     | Governance, infection prevention, staffing; Key services missing at Thansingtar and Badegau PHC.                                      | Balance investment across hospital levels; target Thansingtar and Badegau PHC.                             |
| Gandaki        | Very Low↓↓   | Very High↑   | Over half of Primary <50%; Secondary stable; significant imbalance between hospital levels.                                       | Governance, staffing (nursing, anesthesia), privacy, waste management.                                                                | Equity-based redistribution plan; governance strengthening at Primary hospitals.                           |
| Lumbini        | Low↑↑        | Very High↑   | Major Primary gains; maintaining Secondary >90%; outlier at Lalmatiya (40%).                                                      | Low scores in Lalmatiya (40%); Dental service at Primary hospitals; Hospital waste management                                         | Target Lalmatiya (40%); continue to invest in primary hospitals; maintain Secondary quality.               |
| Karnali        | Low↓         | Very Low↓↓   | Decline across both levels; >10% Secondary drop; Humla hospital at 46%.                                                           | Equipment, sanitation, training, outliers in infection prevention and hygiene.                                                        | Urgent provincial response plan.                                                                           |
| Suder-Pashchim | High↑        | High↑        | Consistently high performance across both levels, but room for growth.                                                            | Privacy, pediatric infrastructure, occasional equipment shortages, decrease in training.                                              | Share best practices nationally; invest in Secondary A infrastructure and long term staffing.              |

**Table 1.** Provincial Summaries for Primary (n=61) and Secondary A (n=40) Hospitals. Symbols indicate general change in MSS scores from 2080 by hospital level: ↑ increasing; ↓ decreasing; ↑ no change or maintaining; ↑↑ significant increases; ↓↓ significant decreases. Change was determined based on average change across the province and if the change was reflected across multiple hospitals, or just influenced by outliers.

# National Report

## Introduction

The Minimum Service Standards (MSS) is a standard readiness and service availability tool to measure and assess the needs of health facilities so they can provide a minimum level of services that are expected from them. MSS comes in the form of an indicator checklist whereby gaps in minimum service standards can be identified in Primary, Secondary A, Secondary B, and Tertiary health facilities across Nepal.

The purpose of this report is to provide the Ministry of Health and Provincial Governments with actionable steps to address gaps in MSS in Primary and Secondary A health facilities based on the most recent data in the most recent Nepali calendar year, 2081 (14/04/2024 - 13/04/2025). There were three main methods of analysis:

1. **Categorized Indicators:** Indicators were categorized by digital systems, equipment, governance, infrastructure, services, staffing, supplies, and training to provide actionable steps. This categorical analysis attempted to answer questions such as what are the staffing needs? What are the training needs? See Annex 2 for a complete list of categorized indicators.
2. **Routine Practice Indicators:** Specific indicators were found to be repeated across departments, measuring small but important routine practices such as the use of a needle cutter, handwashing, or the use of a departmental duty roster. These repeated indicators were grouped by Environment, Infection Prevention, and Communication to provide hospital-wide information to help understand the hospital-wide practices that are otherwise difficult to understand using MSS. Routine Practice indicators are often relatively simple to address and require low, but hospital-wide efforts to improve patient care, the ability for staff to practice, and a hospital's broader MSS scores. There are 201 Routine Practice Indicators at Primary hospitals and 231 at Secondary A hospitals, although the items themselves are nearly identical.
3. **Key Indicators:** Key Indicators (KI) were selected and analyzed by province and category. These KIs were selected to represent the most important areas of hospital needs like staffing, equipment, supplies, services, and governance that would be a foundation for a high quality hospital. There are 75 KIs for Primary hospitals and 88 KIs for Secondary A hospitals.

Recommendations, figures, and tables all work together to provide a coherent picture of how hospitals are functioning on the ground. These are to allow for both targeted approaches, and broad sweeping changes at each level so that resources are used wisely.

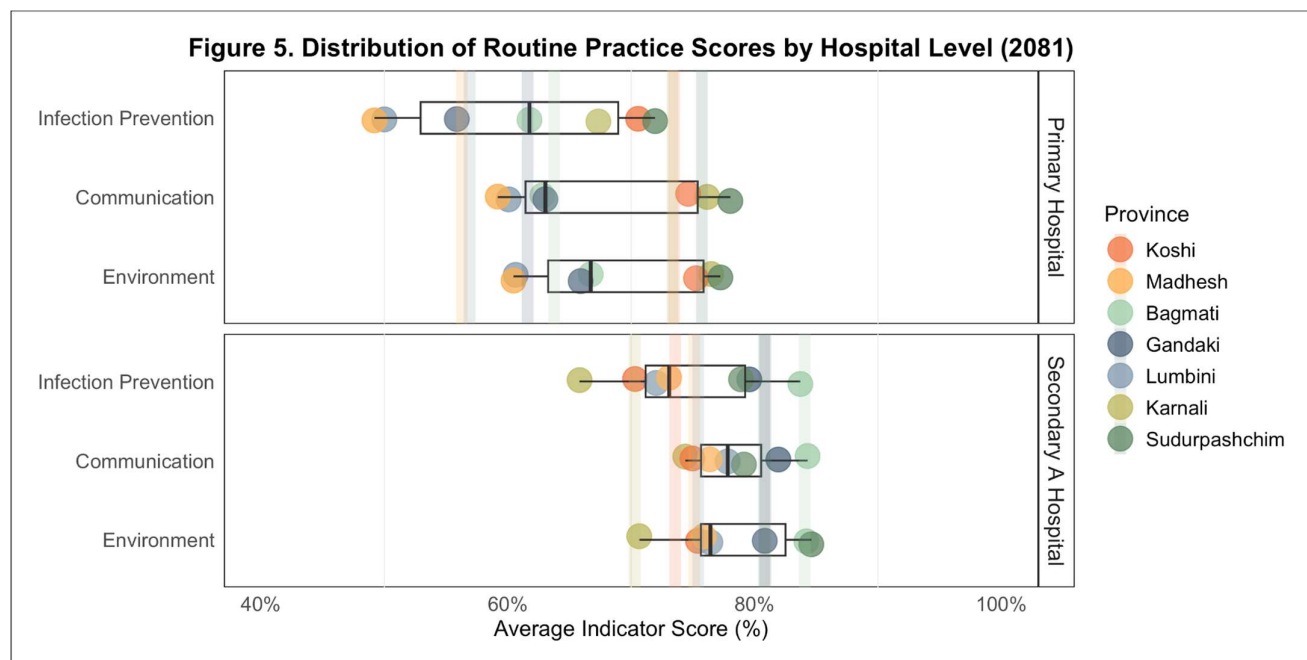
## Routine Practice Recommendations

Certain indicators reflected repeated routine practices across departments that measure small but important actions such as the use of a needle cutter, handwashing, or the use of a departmental duty roster. These repeated indicators were grouped by Environment, Infection Prevention, and Communication to provide districts with hospital-wide information to inform targeted interventions to improve hospital quality care. Routine Practice indicators are often relatively simple to address and require low, but hospital-wide efforts to improve patient care.

Routine Practice Indicators were grouped into three categories:

1. **Infection prevention** indicators are routine and repetitive indicators across departments to ensure that the hospital is following best infection prevention practices and patient safety. These measures are especially important given they can be addressed with relatively little input. Specific infection prevention measures include waste segregation, sanitization, needle cutters, masks and gloves, and hand washing.
2. **Communication** indicators are routine and repetitive indicators across a wide range of departments to ensure that the hospital is communicating effectively with patients and within the hospital systematically. Specific Communication measures across departments include the use of a departmental duty roster, IEC materials (posters, leaflets etc.), internal record keeping, and treatment counseling for patients.
3. **Environmental** indicators are routine practice indicators across a wide range of departments to ensure that the hospital is providing a safe and healthy environment for patients. Specific environmental measures include patient privacy, light and ventilation, drinking water, and adequate space.

To see examples and the number of indicators included for each category and item, see Table 5.



**Figure 5.** Distribution of Routine Practice Scores by Hospital Level in Primary (n=61) and Secondary A (n=40) Hospitals. Note the x-axis ranges from 40% - 100% for easy reading. Vertical lines show provincial averages.

Routine Practice Highlights:

- **Karnali** shows systemic and worsening gaps across all routine practice areas, especially in Secondary A hospitals. Scores have declined since 2080, highlighting an urgent need for provincial and federal intervention.
- **Madhesh** and **Lumbini** Primary hospitals consistently underperform, especially in critical safety measures such as sanitization, needle cutter use, and basic communication practices like record keeping and duty rosters. These reflect broader governance and systems challenges.

- **Privacy, space, and waste segregation** are national weak points, regardless of hospital level or province. Privacy scores are universally low and tied to infrastructure constraints, while waste segregation remains poor even in otherwise high-scoring hospitals. This presents an opportunity for national intervention.
- Bright spots exist in **Sudurpashchim** and **Koshi**, which demonstrate higher adherence to routine practices, especially in infection control and communication. These provinces may serve as models for practical, replicable interventions in similar settings.

Overall, many of these routine practice gaps are low-cost and feasible to address. Prioritizing these items, particularly infection control and communication systems, can yield significant gains in safety and patient experience across both Primary and Secondary A hospitals.

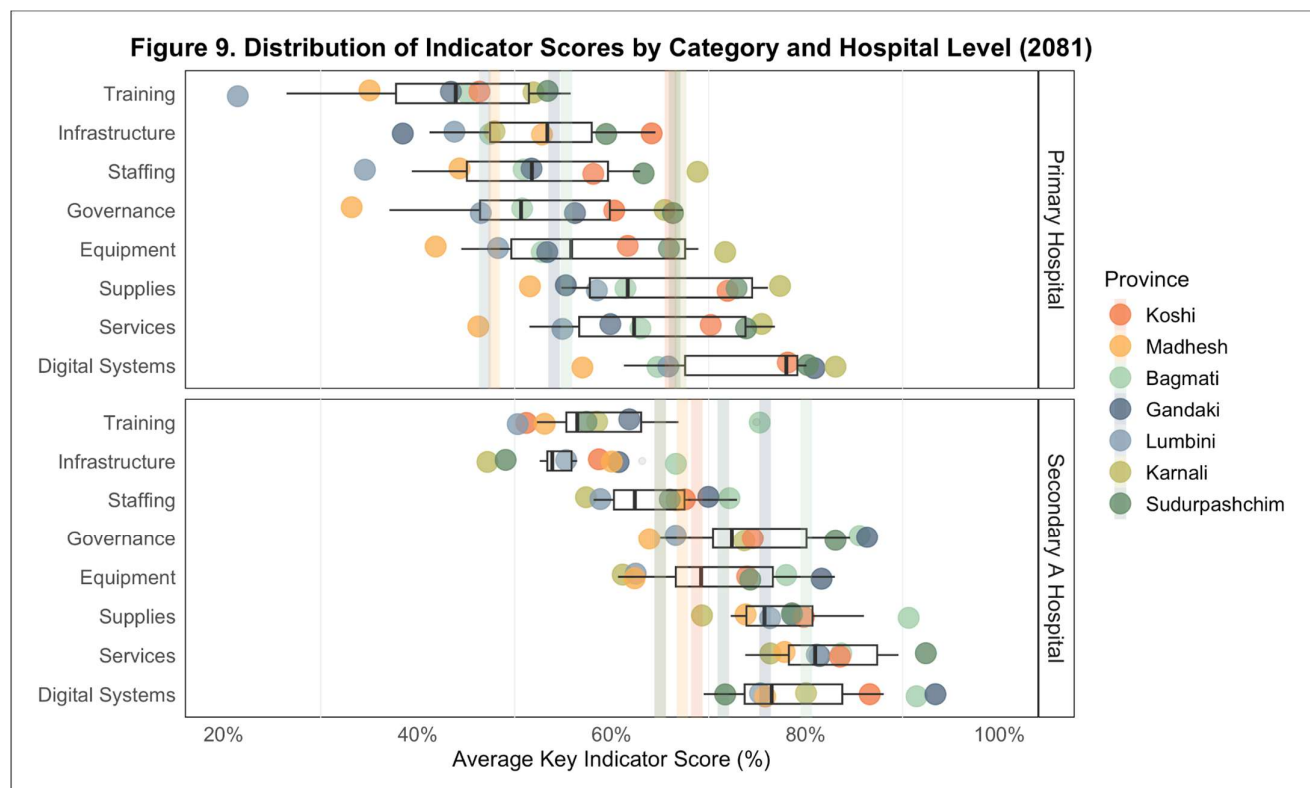
| Table 5. Routine Practice Indicator Categories and Items |                   |             |                                                                                                                                                                                                                                 |
|----------------------------------------------------------|-------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item                                                     | No. of Indicators |             | Example Standard                                                                                                                                                                                                                |
|                                                          | Primary           | Secondary A |                                                                                                                                                                                                                                 |
| Infection Prevention                                     |                   |             |                                                                                                                                                                                                                                 |
| Waste Segregation                                        | 20                | 23          | “There are well labeled colored bins for waste segregation and disposal as per HCWM guideline 2014 (MoHP)” (2.1.10.2)                                                                                                           |
| Sanitization                                             | 24                | 26          | “Chlorine solution is available and utilized for decontamination” (2.3.16.4)                                                                                                                                                    |
| Needle Cutter                                            | 14                | 17          | “Needle cutter is used.” (2.13.12.4)                                                                                                                                                                                            |
| Masks and Gloves                                         | 16                | 21          | “Masks and gloves are available and used” (2.2.2.10.1)                                                                                                                                                                          |
| Hand washing                                             | 25                | 28          | “Hand-washing facility with running water and soap is available for practitioners.” (2.2.1.8.3)                                                                                                                                 |
| Communication                                            |                   |             |                                                                                                                                                                                                                                 |
| Duty Roster                                              | 11                | 13          | “Duty rosters of all OPDs are developed regularly and available.” (2.1.7)                                                                                                                                                       |
| IEC Materials                                            | 10                | 13          | “Appropriate IEC/BCC materials on TB, HIV/AIDS (posters, leaflets) are available in the OPD waiting area.” (2.2.3.4.2)                                                                                                          |
| Record Keeping                                           | 19                | 27          | “Drug resistance, complication and referral to other sites recorded and reported” (2.2.3.9.2)                                                                                                                                   |
| Treatment Counseling                                     | 15                | 14          | “Counseling is provided to patients about the type of treatment being given and its consequences” (2.1.4.1)                                                                                                                     |
| Environmental                                            |                   |             |                                                                                                                                                                                                                                 |
| Privacy                                                  | 11                | 11          | “Patient privacy maintained with separate rooms, curtains hung, maintaining queuing of patients with paging system in OPD (See Checklist 2.1 At the end of this standard for scoring).” (2.1.3)                                 |
| Light and Ventilation                                    | 11                | 14          | “Light and ventilation are adequately maintained.” (2.2.4.8.2)                                                                                                                                                                  |
| Drinking Water                                           | 8                 | 10          | “Safe drinking water is available 24 hours.” (2.7.2.8.3)                                                                                                                                                                        |
| Adequate Space                                           | 13                | 14          | “Adequate rooms and space for health worker and patients are available with at least one working table, chair for health worker and two patients’ chair, one examination bed, one procedure table and one footstep” (2.2.4.8.1) |

**Table 5.** Routine Practice Environmental Items for Primary and Secondary A hospitals.



## Recommended Actionable Steps by Category

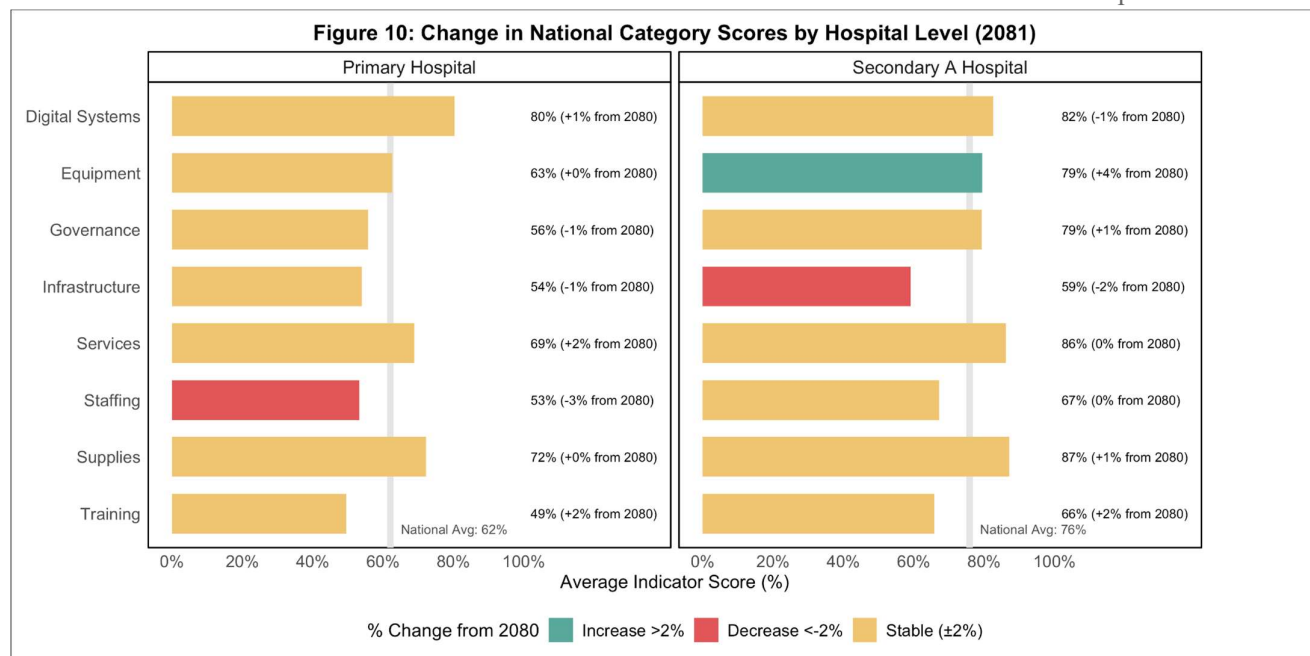
Indicators were categorized by digital systems, equipment, governance, infrastructure, services, staffing, supplies, and training. Categories were decided ahead of time and selected through an iterative process with multiple experts. A decided question was: *Could this be solved with hiring this staff member?* (for Staffing), *completing this training?* (for Training), or *purchasing this equipment?* (for Equipment)? etc. For a detailed description of how indicators were categorized, see Annex 1.



**Figure 9.** Distribution of Indicator Scores by Category in Primary (n=61) and Secondary A (n=40) Hospitals (2081). Vertical lines show provincial averages. Note the x-axis ranges from 20% - 100%.

Across both Primary and Secondary A hospitals, Nepal's MSS assessment reveals persistent national gaps in hospital readiness, especially between hospital levels, with Primary hospitals being underinvested. Nationally, there are shortages in human resources, emergency preparedness, and basic operational governance. These challenges are especially acute in rural and remote areas, where structural and staffing deficits converge to undermine quality and safety. While Secondary A hospitals show modest gains in training and equipment availability, Primary hospitals have largely stagnated or declined since 2080, pointing to a widening equity gap across the health system.

Provincial variation is stark. Karnali lags behind across nearly all categories, particularly in equipment and environmental conditions at the Secondary A level. Lumbini and Gandaki show consistent underperformance in staffing, governance, and training, especially at the Primary level. Sudurpashchim and Koshi perform relatively well on infection prevention and basic routine practices, although Sudurpashchim needs investment in their Secondary A infrastructure and staffing support.



**Figure 10.** Change in National Category Scores in Primary (n=61) and Secondary A (n=40) Hospitals. Color shows change in categorical scores from 2081 to 2080: positive (+2%), negative (-2%), or neutral change (±2%). Vertical grey lines show hospital level averages. Only hospitals with data for 2080 and 2081 were included.

#### Key Findings:

- **Staffing remains a major national concern:** Only 26% of Primary and 22% of Secondary A hospitals meet inpatient nursing requirements. Chronic vacancies in key leadership (e.g., Medical Superintendent) and specialized roles (e.g., anesthesiologists, physiotherapists) are consistent across all provinces.
- **Training** is the lowest-performing category nationally, with BLS, BLCS, and emergency drill standards rarely met. This represents a critical, low-cost opportunity for rapid improvement through routine hospital-level training and simulation exercises.
- **Governance** challenges are widespread, particularly in waste management planning, quality committee meetings, and financial oversight, especially in Primary hospitals. Secondary A hospitals perform better but follow a similar pattern.
- **Equipment** availability has improved in Secondary A hospitals, particularly for diagnostic and surgical equipment. However, Primary hospitals still lack essential tools like defibrillators, autoclaves, and anesthesia equipment, affecting clinical safety.
- **Supplies and medicines** are relatively well-stocked, with near-universal 3-month buffer stocks for lab supplies. However, full compliance with essential pharmacy medicines remains low in both hospital types, suggesting supply chain gaps.
- **Digital systems** are a national bright spot, with widespread digitization of billing, admission, and service tracking. However, blood bank digitization remains limited and should be prioritized.

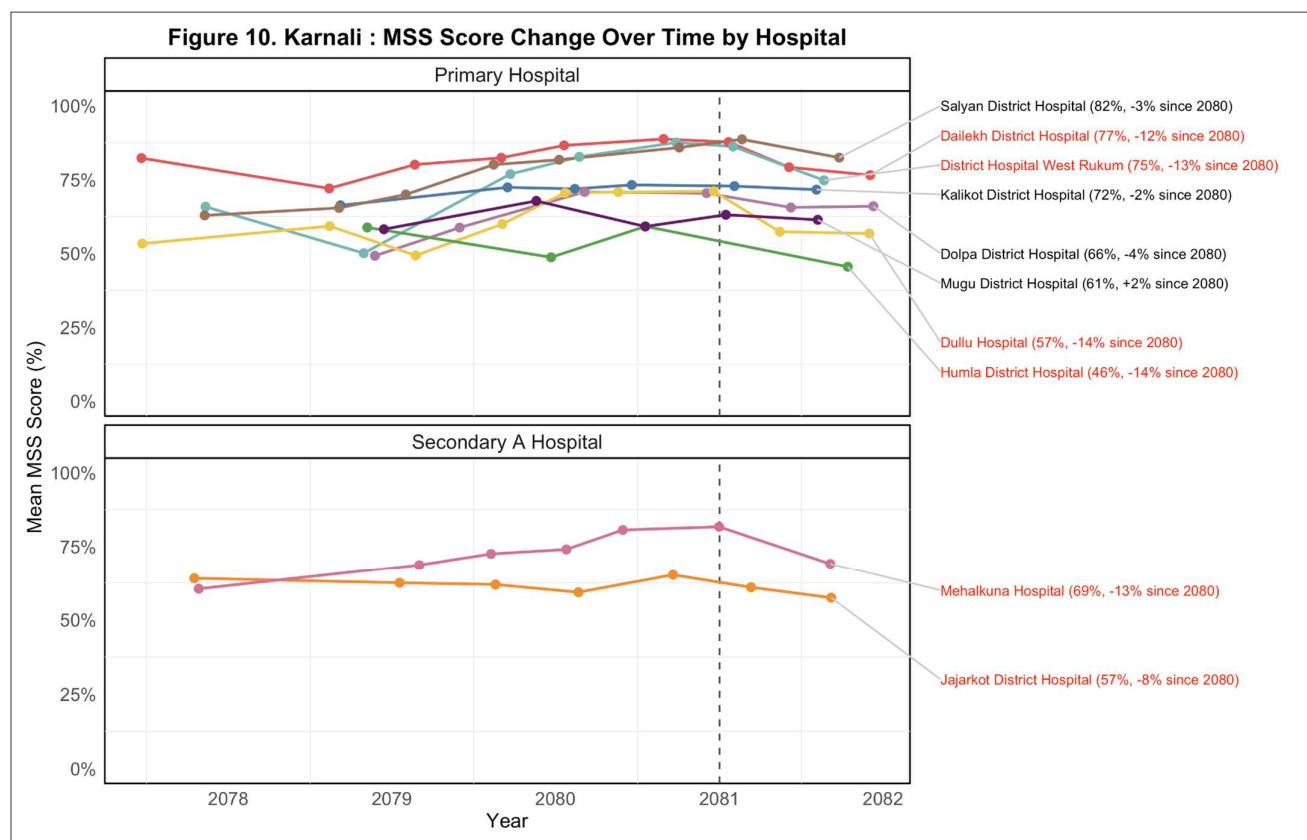
# Karnali Report

Ten Primary and Secondary A hospitals in Karnali Province completed an MSS assessment in 2081; 8 Primary Hospitals, and 2 Secondary A hospitals. There is a concerning negative trend across all Primary (-10.0%) and Secondary Hospitals (-14.0%), with the exception of Mugu district hospital which saw an insignificant +2% increase since 2080. Past successes show that meeting and maintaining minimum services standards is possible and should be prioritized to ensure health outcomes match the investments made, increase trust with the users, and increase service utilization.

Primary hospitals need support across departments, with poorly met routine practice indicators, raising concerns for quality and safety of care for patients and providers. In particular, Humla District Hospital raises concerns, with sanitization indicators, such as using disinfectant, only being met 30% of the time (Figure 13f). Across Primary hospitals, OPD services are not being provided consistently, with not a single hospital meeting “EHS services from 3PM onwards and tickets available from 2 PM onwards” (2.1.1.3). This is an opportunity to invest in resources, staffing, and governance to improve the services available.

Secondary A hospitals are also missing KIs, in particular lacking medicine, equipment, supplies, and staff across the inpatient department. Further, both hospitals could use targeted interventions for their hospital support services: Hospital Waste Management for Jajarkot Hospital and CSSD for Mehalkuna Hospital.

Karnali's trends are troubling. However, this provides an opportunity for a strong, top-down approach to strengthen the quality of services provided across all Primary and Secondary A hospitals. This may require substantial investment, but higher quality health services will increase trust and are more likely to lead to positive health comes and patient utilization.



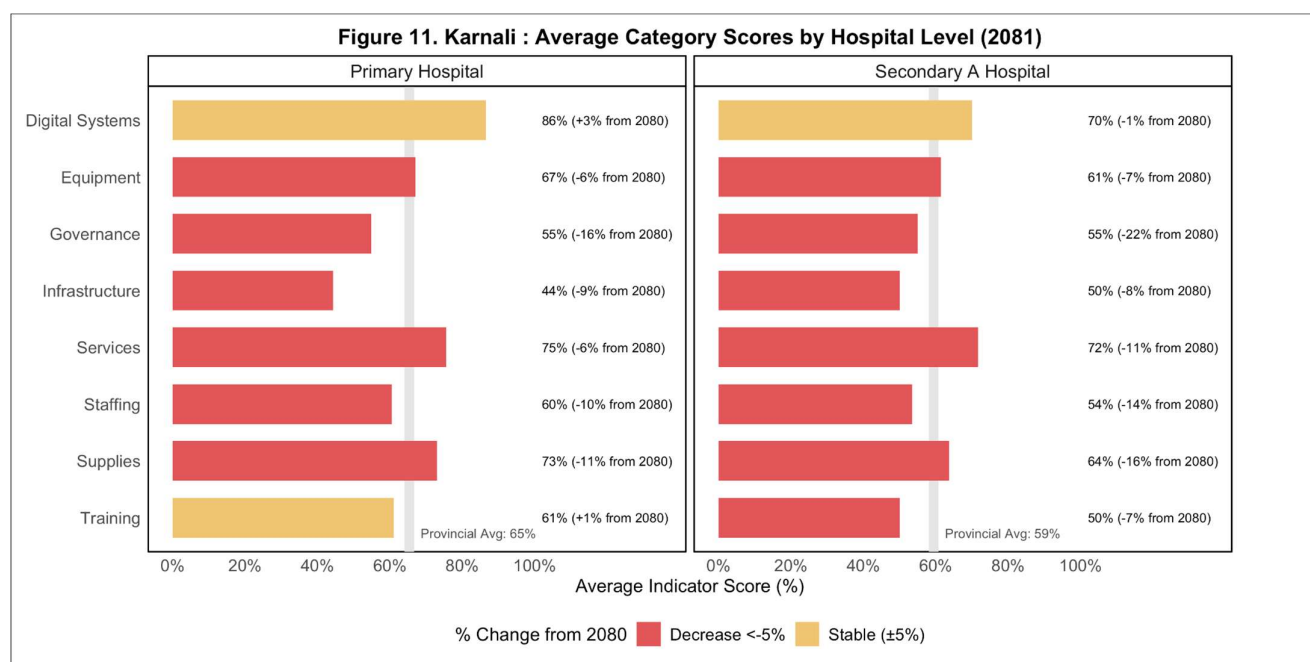
**Figure 10f.** Karnali: Change in MSS Score Over Time by Hospital (n=10). Each line is labeled with the hospital name, the most recent MSS score, and the % change since 2080. Vertical dotted line shows the start of 2081. Red labels indicate a positive increase greater than 5%; red labels indicate a decrease of greater than -5%. Dashed lines show MSS

assessments from a lower level before the hospital was upgraded. Only hospitals with MSS assessments in 2081 were included.

Karnali saw decreases in MSS scores across all Primary hospitals and Secondary A hospitals, with the exception of Mugu District hospital, which saw an insignificant +2 increase since 2080.

Primary Hospitals in Karnali have a wide range, from 46% - 82%. Some decreases were substantial, with Dailekh District Hospital (-12%), District Hospital West Rukum (-13%), Dullu Hospital (-14%)m and Humla District Hospital (-14%). This may signal a systemic concern, especially as some hospitals are continuing a negative trend that started over a year ago, rather than being a single poor score.

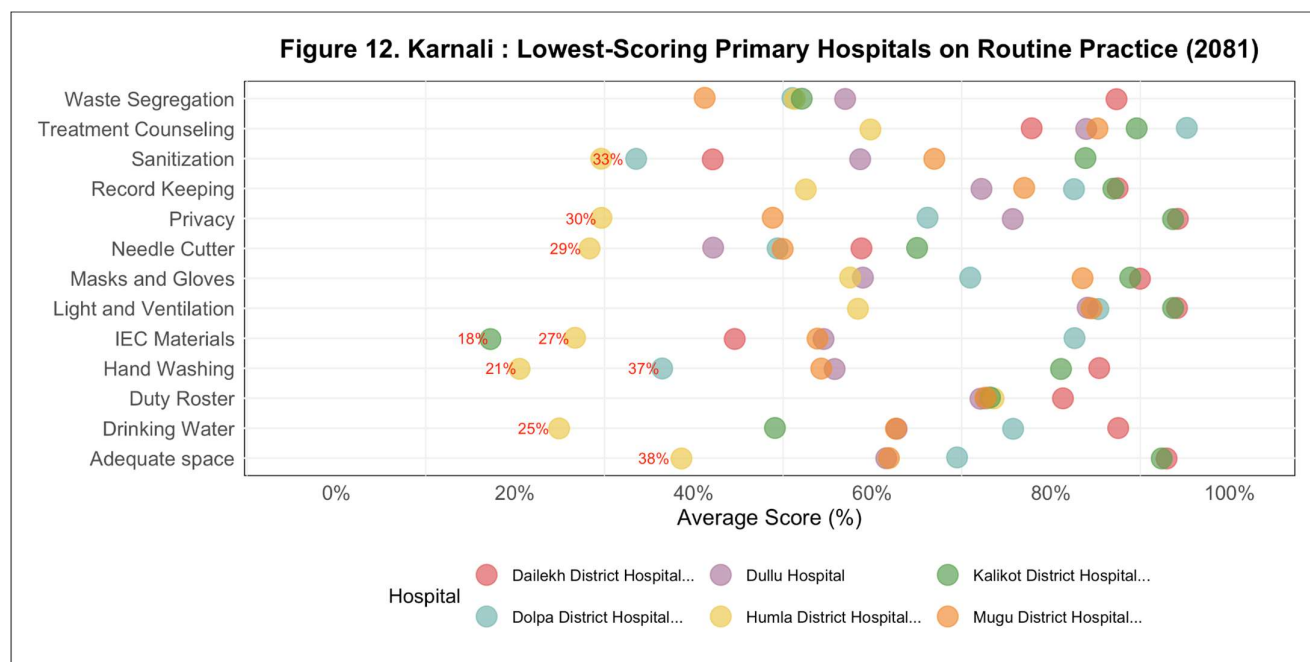
This held true for the two Secondary A hospitals in Karnali, which range from 57% - 69%, where Jajarkot District hospital is continuing a negative trend, decreasing 8% since 2080. These losses are especially concerning given that Secondary A hospitals are not high scoring to begin with, leaving questions about the services provided.



**Figure 11f.** Karnali: Average Category Scores by Hospital Level (2081) (n=10). Color indicates the change in the categorical score from 2080 to 2081. Provincial Averages shown by the grey vertical line. Only hospitals with data in both 2080 and 2081 were included.

Figure 11f shows the change in categorical scores across the hospital from 2080 to 2081. Both Primary (65%) and Secondary A hospitals (59%) have similar scores, as well as distributions across categories. This is different from other provinces, which usually saw a single hospital level with higher scores. All categories saw a decrease across hospital levels except for Digital Systems at the Secondary A level. The lowest areas are infrastructure at Primary (44%) and Secondary A hospitals (50%), followed by Governance at 55% for both. The biggest decreases were seen in Governance, with a -16% and -22% decrease at Primary and Secondary A hospitals. Governance must be addressed to ensure strong administration and systems to improve hospital functioning. This was followed by sharp drops in staffings and supplies. The significant decreases across the province are a major concern. Given the similarities across hospital levels, it also provides the provincial government the opportunity for widespread interventions, with efficient use of resources and expertise.

## Primary Hospitals



**Figure 12f.** Karnali: Lowest-Scoring Primary Hospitals on Routine Practice (n=6). Only the six lowest-scoring routine practice primary hospitals in Karnali were included. Items below 41% are labelled with their percent.

Certain Primary hospitals in Karnali are not meeting basic routine practice indicators. Meeting routine practice indicators does not require large investments, but rather protocols and expectations to abide by them. These are also important because they relate to patient and provider safety, and low scores bring concerns for quality and safety of care.

In particular, **Humla District Hospital** has exceptionally poor, hospital-wide, routine practices. Sanitation, needle cutter use, and hand washing are of exceptional concern due to safety. These should be addressed as soon as possible. Further, although items like privacy, IEC materials, and drinking water may seem less important, they are necessary components of quality care, and influence how people view the hospital. Providing consistent, respectful care is not only the right thing to do, but it also increases demand for services, hospital utilization, and improves health outcomes.

- Sanitization (33%)
- Privacy (30%)
- Needle cutter use (29%)
- IEC materials (27%)
- Hand washing (21%)
- Drinking water (25%)
- Adequate space (38%)

Additional items to address:

- **IEC materials** at Kalikot District Hospital (and Humla District Hospital)
- **Sanitization** and **Hand washing** at Dolpa District Hospital (and Humla District Hospital)

Given the widespread low routine practice indicators, a province wide investment in strengthening these may be appropriate.

**Table 14f. Actionable Steps for Primary Hospitals: Karnali (n=8)**

| Code                    | Area                             | Standard                                                                                                                                                                                                                                                                               | Hospitals meeting standard |   |     |   |   |   |     |   |
|-------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---|-----|---|---|---|-----|---|
|                         |                                  |                                                                                                                                                                                                                                                                                        | 1                          | 2 | 3   | 4 | 5 | 6 | 7   | 8 |
| Low scoring indicators  |                                  |                                                                                                                                                                                                                                                                                        |                            |   |     |   |   |   |     |   |
| 1.1.3                   | Governance                       | Medical Superintendent is fulfilling as per organogram                                                                                                                                                                                                                                 | 0                          | 0 | 0   | 0 | 0 | 0 | 0   | 0 |
| 2.1.1.3                 | OPD Service                      | EHS services from 3PM onwards and tickets available from 2 PM onwards                                                                                                                                                                                                                  | 0                          | 0 | 0   | 0 | 0 | 0 | 0   | 0 |
| 1.4.5.2                 | Financial Management             | Internal audit, financial and physical progress review is done at least once each trimester (once in every 4 months).                                                                                                                                                                  | 1                          | 0 | 0   | 0 | 0 | 0 | 0   | 0 |
| 2.6.5                   | Inpatient Service (General Ward) | Adequate numbers of nursing staff are available in ward per shift (nurse patient ratio 1:6 in general ward, 1:4 in pediatric ward, 1:2 in high dependency or intermediate ward or post-operative ward) and at least one trained office assistant/ward attendant per shift in each ward | 0                          | 0 | 0   | 1 | 0 | 0 | 0   | 0 |
| 2.9.1.1.3               | Laboratory and Blood Bank        | Histopathology service in coordination with other health facilities                                                                                                                                                                                                                    | 0                          | 0 | 0   | 0 | 0 | 0 | 0   | 1 |
| 3.6.1                   | Hospital Waste Management        | There is work plan prepared and implemented by hospital for hospital waste management                                                                                                                                                                                                  | 0                          | 0 | 0   | 0 | 1 | 0 | 0   | 0 |
| 3.6.9.1                 | Hospital Waste Management        | Infectious waste is sterilized using autoclave before disposal                                                                                                                                                                                                                         | 0                          | 0 | 0   | 0 | 0 | 0 | 0   | 1 |
| 2.5.6.1                 | Pharmacy Service                 | Pharmacy unit is led by at least one pharmacist                                                                                                                                                                                                                                        | 1                          | 0 | 0   | 0 | 0 | 0 | 0   | 1 |
| High scoring indicators |                                  |                                                                                                                                                                                                                                                                                        |                            |   |     |   |   |   |     |   |
| 2.5.16.1                | Pharmacy Service                 | Medicine is dispensed using electronic billing with barcode system                                                                                                                                                                                                                     | 1                          | 1 | 1   | 0 | 1 | 1 | 1   | 1 |
| 2.5.5                   | Pharmacy Service                 | The pharmacy is open 24x7                                                                                                                                                                                                                                                              | 1                          | 1 | 0   | 1 | 1 | 1 | 1   | 1 |
| 2.7.1.1.1               | Delivery Service                 | Separate pre-labor room/ labor room with privacy is available.                                                                                                                                                                                                                         | 1                          | 1 | 1   | 1 | 0 | 1 | 1   | 1 |
| 2.7.1.2.2               | Delivery Service                 | All staffs- nursing, medical practitioner designated for delivery services are trained skilled birth attendants                                                                                                                                                                        | 1                          | 1 | 1   | 1 | 0 | 1 | 1   | 1 |
| 2.8.2.2                 | Surgery/Operation Service        | For one surgery, at least a team is composed of: MDGP with one trained medical officer, two OT trained nursing, one anesthesia assistant supervised by MDGP, two nurses for pre-anesthesia and postsurgical care, and one office assistant (for cleaning and helping)                  | 1                          | 1 | 1   | 1 | 1 | 1 | 0   | 1 |
| 2.9.1.8.1               | Laboratory and Blood Bank        | At least three months buffer stock of laboratory supplies is available.                                                                                                                                                                                                                | 1                          | 1 | 1   | 1 | 1 | 1 | 0   | 1 |
| 2.9.2.1.2               | X-Ray Service                    | Emergency x-ray service is available round the clock                                                                                                                                                                                                                                   | 1                          | 1 | 0   | 1 | 1 | 1 | 1   | 1 |
| 2.9.2.5.1               | X-Ray Service                    | General X ray unit (with minimum 125KV and 300ma X-ray machine) with tilting table and vertical bucky                                                                                                                                                                                  | 1                          | 1 | 1   | 1 | 0 | 1 | 1   | 1 |
| 2.9.2.5.2               | X-Ray Service                    | Complete CR system with CR cassette at least 5 of 14 x 17 inch and 3 of 10x12inch.                                                                                                                                                                                                     | 1                          | 1 | 1   | 1 | 0 | 1 | 1   | 1 |
| 2.10.6*                 | Dental Service                   | Equipment, instrument and supplies to carry out Dental Services (See Annex 2.10 b Basic Equipment and Instrument for Dental Services at the end of this standard) are available and functioning                                                                                        | 1                          | 1 | 0.7 | 1 | 1 | 1 | 0.7 | 1 |

**Table 14f.** Actionable steps for Primary hospitals in Karnali (n=8). Hospital numbers are as follows: (1) Dailekh District Hospital, (2) District Hospital West Rukum, (3) Dolpa District Hospital, (4) Dullu Hospital, (5) Humla District Hospital, (6) Kalikot District Hospital, (7) Mugu District Hospital, and (8) Salyan District Hospital. \*Standard out of 3 points.

Above, Table 14f shows the 10 *most met* and the 10 *least met* KI scores for all 8 Primary hospitals in Karnali for the most recent MSS assessment in 2081. There are widespread gaps, across Primary level hospitals, especially in governance. To grow and sustain services across hospitals, governance should be strengthened first. No Medical Superintendent posts are filled (1.1.3) across Karnali, and financial (1.4.5.2) and waste management (3.6.1) remain areas

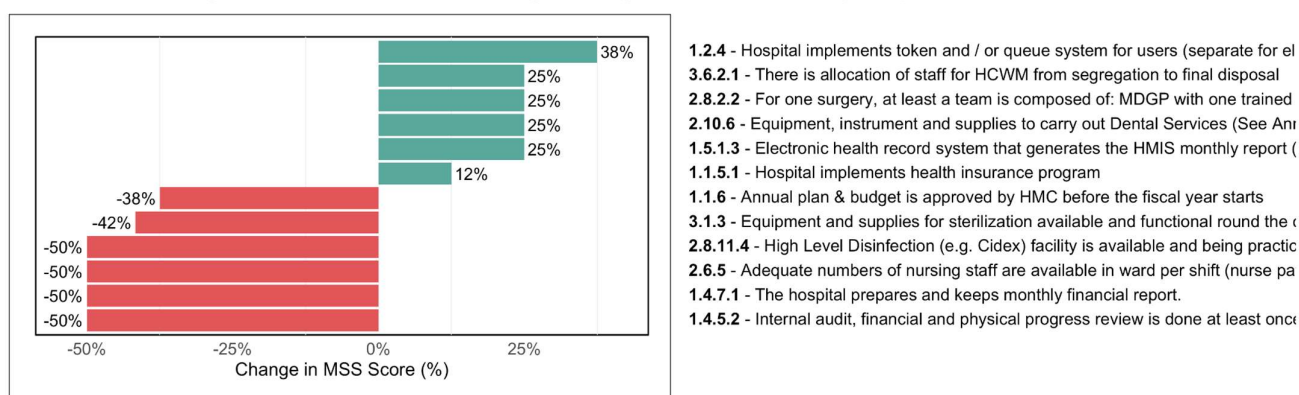


that require investment across hospitals. The provincial government could specifically facilitate histopathology services in coordination with other health facilities (Laboratory and Blood Bank).

However, the largest concern, which will need substantial efforts to implement and sustain, is the **provision of OPD services**, given that the standard “EHS services from 3PM onwards and tickets available from 2 PM onwards” (2.1.1.3) is not being met at a single Primary hospital. Not only does this hurt the health of the patient, inconsistent services influence patient utilization and increases use of the private sector due to a perception of poor quality. To prevent this, there is an urgent need for investment in Karnali’s Primary hospitals to provide safe, sustained, and high quality patient care.

Above, Table 14f. Shows the highest and lowest scoring KIs by hospital. Below, Figure 13f shows the biggest *changes* in KIs from 2080 to 2081. This highlights areas of improvement and areas of loss. The figure does not indicate current scores, only change from 2080 to 2081.

**Figure 13. Karnali : Greatest Changes in Key Indicators at Primary Hospitals from 2080 to 2081**



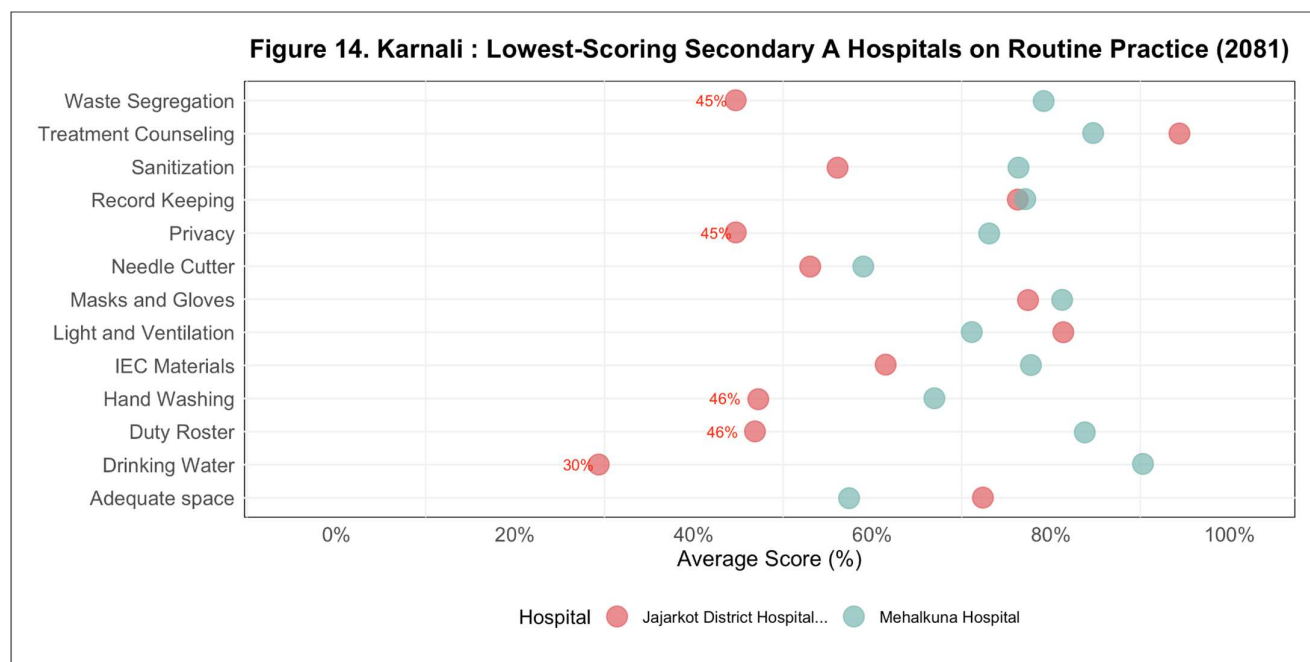
**Figure 13f.** Karnali: Greatest Changes in Key Indicators at Primary Hospitals from 2080 to 2081 (n=8). The indicator code and the beginning of each standard is written to the right of the graph. For the full standard, see the MSS book using the indicator code. Only hospitals with data for 2080 and 2081 were included.

Figure 13f shows the greatest positive and negative changes in KIs at Primary hospitals in Karnali province from 2080 to the most recent score in 2081. There have been greater decreases than increases, specifically in the financial department. The largest concern is the decrease in high level disinfection practices

Decreased Key MSS indicators from 2080 to 2081 in the **Financial Department and Governance**:

- Dullu Hospital (1.4.5.2; 1.4.7.1; and 1.1.6)
- Kalikot District Hospital (1.4.5.2 and 1.4.7.1)
- Dolpa District Hospital (1.4.5.2 and 1.1.6)
- Mugu District Hospital (1.4.5.2)
- Humla District Hospital (1.4.7.1)
- Dailekh District Hospital (1.4.7.1)
- District Hospital West Rukum (1.4.7.1 and 1.1.6)

## Secondary A Hospitals



**Figure 14f.** Karnali: Lowest-Scoring Secondary A Hospitals on Routine Practice (n=2). Items below 51% are labelled with their percent. Only hospitals with 2081 MSS assessments were included.

There are only two Secondary A hospitals in Karnali, and neither is fully meeting routine practice indicators across the board such as waste segregation, hand washing, or needle cutter use. Although Jajarkot District Hospital is lower generally, both hospitals could benefit from province wide interventions to strengthen routine practices to improve safety and quality of care. Highest concerns are low sanitization, lack of handwashing facilities, and low needle cutter availability and usage.

**Table 16f. Actionable Steps for Secondary A Hospitals: Karnali (n=5)**

| Table 16f. Actionable Steps for Secondary A Hospitals: Karnali (n=5) |                                            |                                                                                                                                                                                                                                                                         |                            |           |
|----------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------|
| Indicator Code                                                       | Area                                       | Standard                                                                                                                                                                                                                                                                | Hospitals meeting standard |           |
|                                                                      |                                            |                                                                                                                                                                                                                                                                         | Jajarkot                   | Mehalkuna |
| Low scoring indicators                                               |                                            |                                                                                                                                                                                                                                                                         |                            |           |
| 1.1.3                                                                | Governance                                 | Medical Superintendent is fulfilling as per organogram                                                                                                                                                                                                                  | 0                          | 0         |
| 1.5.2.2                                                              | Medical Records and Information Management | All patients' records are kept in individual folders in racks or held digitally.                                                                                                                                                                                        | 0                          | 0         |
| 1.6.1.2                                                              | Quality Management                         | Hospital (QHSDMS) Committee meetings are held at least every 4 months                                                                                                                                                                                                   | 0                          | 0         |
| 2.1.1.3                                                              | OPD Service                                | EHS services from 3PM onwards and tickets available from 2PM onwards                                                                                                                                                                                                    | 0                          | 0         |
| 2.14.3                                                               | Physiotherapy                              | At least 1 physiotherapist trained in Masters in Physiotherapy (MPT), 2 trained in Bachelors in Physiotherapy (BPT),and 2 Certificate in physiotherapy (CPT) or Diploma in physiotherapy (DPT) and 1 trained office assistant treating 20 patients per day on OPD basis | 0                          | 0         |
| 2.3.10.2                                                             | Emergency Service                          | Disaster area identified with adequate furniture to carry out Triage in case of disaster                                                                                                                                                                                | 0                          | 0         |
| 2.6.2.2                                                              | Inpatient Service                          | Surgery Ward (See Annex 2.6a Furniture and supplies for inpatient wards At the end of this standard)                                                                                                                                                                    | 0                          | 0         |



|                                |                                      |                                                                                                                                                                                                                                                                                                                                                                    |     |     |
|--------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 2.6.2.3.1                      | Inpatient Service                    | Pediatrics Ward (See Annex 2.6a Furniture and supplies for inpatient wards At the end of this standard)                                                                                                                                                                                                                                                            | 0   | 0   |
| 2.6.3.2                        | Inpatient Service                    | Surgery Ward (See Annex 2.6b medicine and supplies for inpatient wards At the end of this standard)                                                                                                                                                                                                                                                                | 0   | 0   |
| 2.6.5                          | Inpatient Service                    | Adequate numbers of nursing staff are available in ward per shift (nurse patient ratio 1:6 in general ward, 1:4 in pediatric ward, 1:2 in high dependency or intermediate ward or post-operative ward or burn/plastic) and at least one trained office assistant/ward attendant per shift in each ward (See Checklist 2.6 At the end of this standard for scoring) | 0   | 0   |
| <i>High scoring indicators</i> |                                      |                                                                                                                                                                                                                                                                                                                                                                    |     |     |
| 2.9.2.5.2                      | X-Ray Service                        | Complete CR system with CR cassette at least 5 of 14 x 17 inch and 3 of 10x12inch.                                                                                                                                                                                                                                                                                 | 1   | 0   |
| 3.1.1.2                        | CSSD                                 | There are separate rooms designated for dirty utility, cleaning, washing and drying and sterile area for sterilizing, packaging and storage                                                                                                                                                                                                                        | 1   | 0   |
| 3.1.2                          | CSSD                                 | Separate staffs assigned for CSSD and is led by CSSD trained personal                                                                                                                                                                                                                                                                                              | 1   | 0   |
| 3.4.3.2                        | Repair, Maintenance and Power system | Hospital has alternate power generator capable of running x-ray and other hospital equipment                                                                                                                                                                                                                                                                       | 1   | 0   |
| 3.6.1                          | Hospital Waste Management            | There is work plan prepared and implemented by hospital for hospital waste management                                                                                                                                                                                                                                                                              | 0   | 1   |
| 3.6.2.1                        | Hospital Waste Management            | There is allocation of staff for HCWM from segregation to final disposal                                                                                                                                                                                                                                                                                           | 0   | 1   |
| 2.10.6*                        | Dental Service                       | Equipment, instrument and supplies to carry out Dental Services (See Annex 2.10b Basic Equipment and Instrument for Dental Services at the end of this standard) are available and functioning                                                                                                                                                                     | 0.3 | 1   |
| 2.6.2.1*                       | Inpatient Service                    | Medicine Ward (See Annex 2.6a Furniture and supplies for inpatient wards At the end of this standard)                                                                                                                                                                                                                                                              | 0.7 | 0.7 |
| 2.7.1.9.2*                     | Maternity Services                   | The facility has adequate equipment, instrument and general supplies for delivery services (See Annex 2.7.1a Furniture, equipment, instrument and general supplies for labor room At the end of this standard)                                                                                                                                                     | 0.3 | 1   |
| 2.8.7.3*                       | Surgery/ Operation Services          | Each operating room has medicines and supplies available (See Annex 2.8g General Medicine and Supplies for OT At the end of this standard)                                                                                                                                                                                                                         | 0.7 | 0.7 |

**Table 16f.** Actionable steps for Secondary hospitals in Karnali (n=2). \*Standard out of 3 points.

Above, Table 16f shows the 10 *most met* and the 10 *least met* KI scores for all 7 Secondary A hospitals in Karnali for the most recent MSS assessment in 2081. There are fundamental gaps across both Secondary A hospitals that should be addressed from the province to ensure basic services are met. The greatest concern is in the **inpatient department** where absolutely foundational KIs are not being met:

- Furniture and supplies (2.6.2.2)
- Medicine and supplies (2.6.5)
- Inpatient nursing staff (2.6.5)
- Inpatient pediatric ward is missing basic furniture and supplies (2.6.2.2)
- Medicine ward (2.6.2.1) *partially met*

Please see the MSS handbook to review the appendices to identify missing furniture, medicines, and supplies and coordinate with the hospital to ensure these standards are being met to meet a basic level of service quality and safety.

Gaps at hospitals are unique, although both would benefit from strengthening their **hospital support services**. Mehalkuna Hospital needs:

- CSSD staff (3.1.2)
- CSSD space and rooms (3.1.1.2)
- An alternate power generator to run hospital equipment (3.1.2)

Jajarkot Hospital needs:

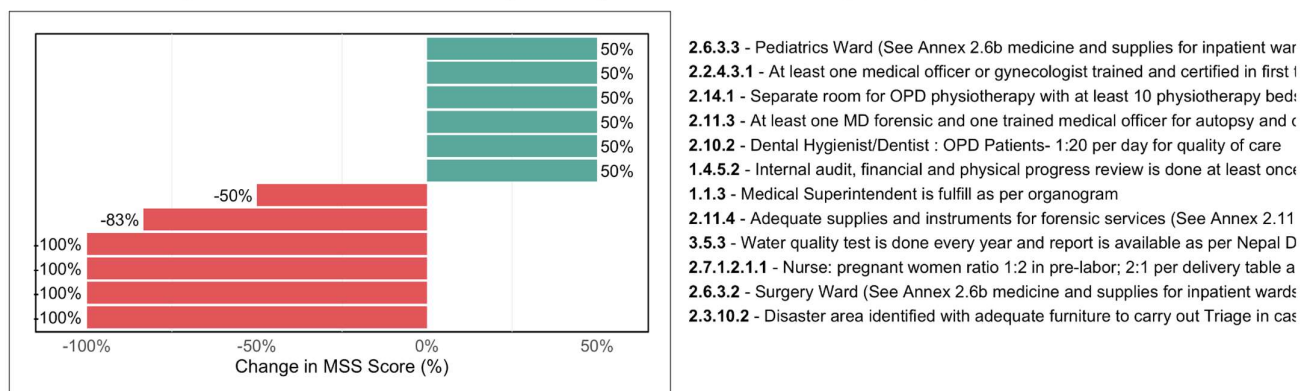
- Hospital waste management work plan (3.6.1)

- Staff for hospital waste management (3.6.2.1)

Finally, Mehalkuna needs a complete CR system with CR cassettes (2.9.2.5.2) to ensure service provision and both hospitals need to ensure the operating rooms have medicine and supplies available (2.8.7.3). However, given that there are such widespread gaps in such fundamental services, a hospital wide approach might be more appropriate.

Above, Table 16f. Shows the highest and lowest scoring KIs by hospital. Below, Figure 15f shows the biggest *changes* in KIs from 2080 to 2081. This highlights areas of improvement and areas of loss. The figure does not indicate current scores, only change from 2080 to 2081.

**Figure 15. Karnali : Greatest Changes in Key Indicators at Secondary A Hospitals from 2080 to 2081**



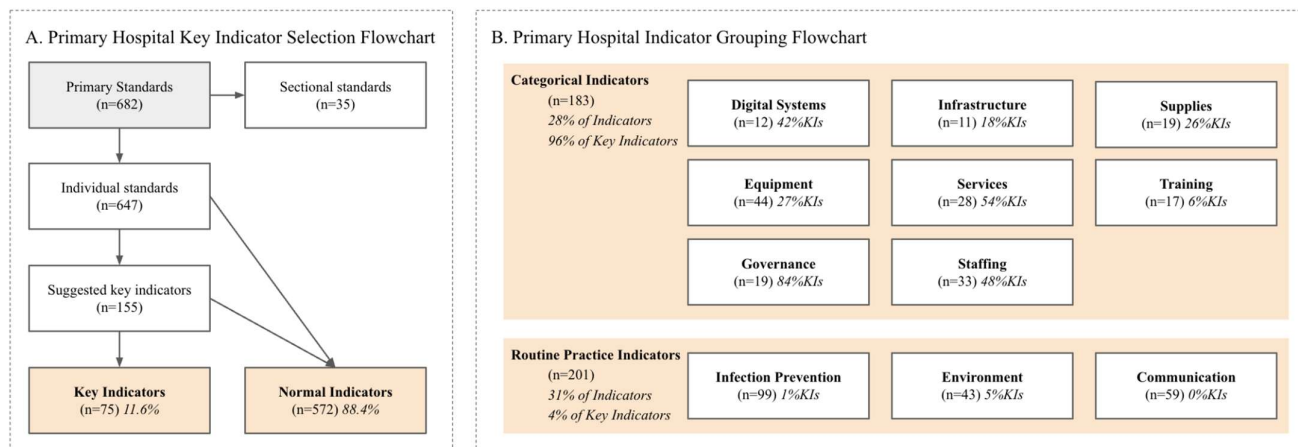
**Figure 15f.** Karnali: Greatest Changes in Key Indicators at Secondary A Hospitals from 2080 to 2081 (n=5). The indicator code and the beginning of each standard is written to the right of the graph. For the full standard, see the MSS book using the indicator code. Only hospitals with data for 2080 and 2081 were included.

Figure 15f shows the greatest positive and negative changes in KIs at Secondary A hospitals in Karnali province from 2080 to the most recent score in 2081. There have been improvements in staffing across departments, a major achievement. Efforts should be made to retain staff and further close staffing gaps. Staff retention will be improved if the hospital has necessary supplies and equipment and can provide high quality services.

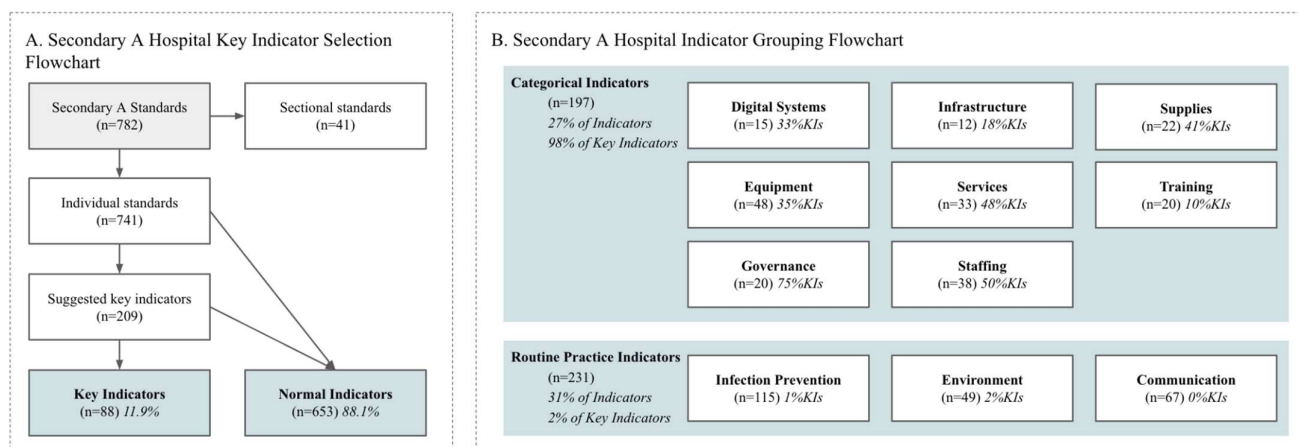
# Annex

## Annex 1. Key and Routine Practice Indicators

### 1. Primary Hospital Indicator Selection Process



### 2. Secondary A Hospital Indicator Selection Process



## Annex 2. Lists of categorical variables

Annex 2 details the list of indicators included in each category for Primary and Secondary A hospitals within the MSS Annual Report, 2081. Note that there may be slight variations between Primary and Secondary A MSS indicators. Always see the original MSS book. N/A = that there is no equivalent indicator between hospitals and it is not included for that hospital level.

| Annex 2. List of Categorical Variables |                  |                                            |                                                                                                                                                                |
|----------------------------------------|------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prim. Indicator                        | Sec. A Indicator | Area                                       | Indicator                                                                                                                                                      |
| <i>Digital Systems</i>                 |                  |                                            |                                                                                                                                                                |
| 1.2.5                                  | 1.2.5            | Organizational Management                  | All staffs of hospital use electronic attendance                                                                                                               |
| 1.3.6.3                                | 1.3.6.3          | Human Resources Management and Development | There is activity conducted to motivate staff (staff retreat, rewards, recognition of performances, etc.) at least once a year.                                |
| 1.4.6.1                                | 1.4.6.1          | Financial Management                       | The hospital uses central electronic billing system                                                                                                            |
| 1.5.1.1                                | 1.5.1.1          | Medical Records and Information Management | Client registration is digitized using standard software                                                                                                       |
| 1.5.1.2                                | 1.5.1.2          | Medical Records and Information Management | Referral in and out records are kept using the standard form (HMIS 1.4) and register.                                                                          |
| 1.5.1.3                                | 1.5.1.3          | Medical Records and Information Management | Electronic health record system that generates the HMIS monthly report (HMIS 9.4) is in place                                                                  |
| 1.5.3.1                                | 1.5.3.1          | Medical Records and Information Management | Hospital monthly reports (HMIS 9.4) of the last three months are shared to the national database                                                               |
| 1.5.2.2                                | 1.5.2.2          | Medical Records and Information Management | All patients' records are kept in individual folders in racks or held digitally.                                                                               |
| N/A                                    | 2.3.9            | Emergency Service                          | The hospital has maintained security system for ER for 24 hours with CCTV coverage                                                                             |
| 2.5.16.1                               | 2.5.15.1         | Pharmacy Service                           | Medicine is dispensed using electronic billing with barcode system                                                                                             |
| 2.6.13                                 | 2.6.13           | Inpatient Service                          | Admission and discharge registers are available and are being filled completely (HMIS 8.1 and 8.2) (See Checklist 2.6 At the end of this standard for scoring) |
| 2.7.2.11                               | 2.7.2.11         | Delivery Service                           | Admission and discharge registers are available and are being filled completely (HMIS 8.1 and 8.2)                                                             |
| 2.9.1.7.2                              | 2.9.1.1.7.2      | Laboratory                                 | Standard reporting sheets are being used and all reports are recorded in a standard register (HMIS 9.4).                                                       |
| N/A                                    | 2.9.1.2.7.2      | Blood bank                                 | Standard reporting sheets are being used and all reports are recorded in a standard register or NBBTS software and computerized bill available to patients     |
| N/A                                    | 3.8.2.2          | Transportation and Communication           | Internal communication (paging) system has been installed in all major service stations.                                                                       |
| 3.9.3.1                                | 3.9.3.1          | Store (Medical and logistics)              | Electronic database system is used in the hospital medical store.                                                                                              |
| <i>Equipment</i>                       |                  |                                            |                                                                                                                                                                |
| N/A                                    | 1.3.7.3          | Human Resources Management and Development | Separate space with furniture, audio-visual aids and internet for CPD/CME/meeting are available.                                                               |

|           |             |                                            |                                                                                                                                                                                                                               |
|-----------|-------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.3.8.3   | 1.3.8.3     | Human Resources Management and Development | Computers with printing and photocopy facility available                                                                                                                                                                      |
| 1.5.2.3   | 1.5.2.3     | Medical Records and Information Management | There is a set of functional computer and printer available for maintaining medical records.                                                                                                                                  |
| 2.2.2.7   | 2.2.2.7     | Family Planning Clinic                     | Functional BP set, stethoscope, thermometer, and weighing scale available                                                                                                                                                     |
| 2.2.3.6   | 2.2.3.6     | ATT, ART clinic                            | OPD has functional BP set, stethoscope, thermometer and weighing scale                                                                                                                                                        |
| 2.2.4.7.2 | 2.2.4.7.2   | Safe Abortion Services                     | Functional BP set, stethoscope, thermometer, and weighing scale available                                                                                                                                                     |
| 2.3.4     | 2.3.4       | Emergency Service                          | Instruments and equipment to carry out the ER works are available and functioning (See Annex 2.3b ER Instruments and Equipment At the end of this standard)                                                                   |
| 2.3.7.1   | N/A         | Emergency Service                          | In red area one of the bed is Resuscitation bed with availability of emergency crash trolley with emergency lifesaving drugs, cardiac monitor, non-invasive ventilator, oxygen concentrator                                   |
| 2.5.10    | 2.5.10      | Pharmacy Service                           | Pharmacy uses computer with software for inventory management and medicine use                                                                                                                                                |
| 2.5.13.2  | 2.5.12.2    | Pharmacy Service                           | Temperature of pharmacy is monitored and recorded and is maintained in range of (25+/-2°C)                                                                                                                                    |
| 2.5.13.3  | 2.5.12.3    | Pharmacy Service                           | Functional freeze +/-4°C for thermolabile medicine                                                                                                                                                                            |
| 2.6.2     | 2.6.2.1     | Inpatient Service                          | Medicine Ward (See Annex 2.6a Furniture and supplies for inpatient wards At the end of this standard)                                                                                                                         |
| 2.6.7     | N/A         | Inpatient Service (General Ward)           | Telephone facility is available with list of important contact numbers and hospital codes visibly kept                                                                                                                        |
| N/A       | 2.6.2.2     | Inpatient Service                          | Surgery Ward (See Annex 2.6a Furniture and supplies for inpatient wards At the end of this standard)                                                                                                                          |
| N/A       | 2.6.2.3.1   | Inpatient Service                          | Pediatrics Ward (See Annex 2.6a Furniture and supplies for inpatient wards At the end of this standard)                                                                                                                       |
| 2.6.8.3   | 2.6.8.3     | Inpatient Service                          | At least one defibrillator in immediate accessible area (See Checklist 2.6 At the end of this standard for scoring)                                                                                                           |
| 2.7.1.5   | 2.7.1.5     | Maternity Services                         | At least 2 KMC chairs available for providing KMC to premature and preterm babies                                                                                                                                             |
| 2.7.2.6   | N/A         | Maternity Inpatient Service                | Telephone facility is available with list of important contact numbers and hospital codes visibly kept                                                                                                                        |
| 2.7.1.9.2 | 2.7.1.9.2   | Maternity Services                         | The facility has adequate equipment, instrument and general supplies for delivery services (See Annex 2.7.1a Furniture, equipment, instrument and general supplies for labor room At the end of this standard)                |
| 2.7.2.7.3 | 2.7.2.7.3   | Delivery Service                           | At least one defibrillator in immediate accessible area                                                                                                                                                                       |
| 2.8.7.4   | 2.8.7.4     | Surgery/ Operation Services                | Surgical sets for minimum list of the surgical services available (See Annex 2.8h Surgical sets for Minimum list of the surgical procedures At the end of this standard)                                                      |
| 2.8.7.2   | 2.8.7.2     | Surgery/Operation Service                  | Each operating room has general equipment, instruments and supplies available (See Annex 2.8d Furniture, Equipment, Instruments and Supplies for OT at the end of this standard)                                              |
| 2.8.8.2   | 2.8.8.2     | Surgery/ Operation Services                | Equipment, instrument and supplies for anesthesia available (See Annex 2.8i Equipment, Instrument and Supplies for Anesthesia At the end of this standard)                                                                    |
| 2.8.9.1   | 2.8.9.1     | Surgery/ Operation Services                | Dedicated space for pre-anesthesia assessment and post-anesthesia recovery with patient bed, IV stand, IV cannula, fixing tapes, infusion sets, burette sets, syringes, three-way stop cocks and at least one cardiac monitor |
| 2.9.1.3.2 | 2.9.1.2.4   | Laboratory and Blood Bank                  | Instruments and equipment are calibrated, available and functioning with record of smear kept (See Annex 2.9.1.2b Equipment and Instrument for Blood Bank At the end of the standard)                                         |
| 2.9.1.8.2 | 2.9.1.1.8.2 | Laboratory                                 | Reagents are stored at appropriate temperature in store and lab                                                                                                                                                               |
| N/A       | 2.9.1.1.9.2 | Laboratory                                 | Blood storage has required instrument and equipment (See Annex 2.9.1.1c At the end of this standard)                                                                                                                          |
| N/A       | 2.9.1.2.3.4 | Blood bank                                 | Thermometers are attached to all equipment requiring temperature control and temperatures are recorded daily                                                                                                                  |

|                   |            |                                      |                                                                                                                                                                                                |
|-------------------|------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.9.2.5.1         | 2.9.2.5.1  | X-Ray Service                        | General X ray unit (with minimum 125KV and 300ma X-ray machine) with floatation table top and vertical bucky                                                                                   |
| 2.9.2.5.2         | 2.9.2.5.2  | X-Ray Service                        | Complete CR system with CR cassette at least 5 of 14 x 17 inch and 3 of 10x12inch.                                                                                                             |
| 2.9.2.6.1         | 2.9.2.6.1  | X-Ray Service                        | X ray room of at least 4x4sqm with wall of at least 23cm of brick or 6cm RCC or 2mm lead equivalent.                                                                                           |
| 2.9.3.5           | 2.9.3.5    | Ultrasonography (USG)                | USG machine (advanced) with different probes, computer and printer with USG papers , gel and wipes is available and functional                                                                 |
| 2.9.4.4           | 2.9.4.5    | Electrocardiogram (ECG)              | Functional ECG machine (12 lead with power back up), paper, gel, wipes and hand sanitizer are available in ECG trolley                                                                         |
| 2.10.6            | 2.10.6     | Dental Service                       | Equipment, instrument and supplies to carry out Dental Services (See Annex 2.10b Basic Equipment and Instrument for Dental Services at the end of this standard) are available and functioning |
| 2.11.1.2          | 2.11.1.1.2 | Postmortem Service                   | Body dissection table (at least one) is available and used                                                                                                                                     |
| 2.11.1.3          | 2.11.1.1.3 | Postmortem Service                   | Organ dissection table (at least one) is available and used                                                                                                                                    |
| 2.11.5            | 2.11.5     | Postmortem                           | Mortuary van is available 24 hours (at least one)                                                                                                                                              |
| N/A               | 2.14.7     | Physiotherapy                        | Instruments and equipment to carry out the Physiotherapy works are available and functioning (See Annex 2.14a Instruments and equipment physiotherapy At the end of this standard).            |
| 3.1.3             | 3.1.3      | CSSD                                 | Equipment and supplies for sterilization available and functional round the clock (See Annex 3.1a CSSD Equipment and Supplies At the end of this standard)                                     |
| 3.1.6             | 3.1.6      | CSSD                                 | All wrapped instruments are indicated with thermal indicator and autoclaved in a separate room.                                                                                                |
| 3.2.5             | 3.2.5      | Laundry                              | All linens are washed using a washing machine.                                                                                                                                                 |
| 3.4.3.2           | 3.2.6.2    | Laundry                              | Linen dryer is available and used                                                                                                                                                              |
| 3.4.3.4           | 3.4.3.2    | Repair, Maintenance and Power system | Hospital has alternate power generator capable of running x-ray and other hospital equipment                                                                                                   |
| 3.4.3.4           | 3.4.3.4    | Repair, Maintenance and Power system | Hospital has solar system installed (at least for essential clinical services and administrative function).                                                                                    |
| 3.6.9.1           | 3.6.9.1    | Hospital Waste Management            | Infectious waste is sterilized using autoclave before disposal                                                                                                                                 |
| 3.7.6.1           | 3.7.6.1    | Safety and Security                  | The hospital has fire extinguisher in all blocks including the fire extinguishing system                                                                                                       |
| 3.7.6.2           | 3.7.6.2    | Safety and Security                  | The hospital has installed safety alarm system including smoke detector                                                                                                                        |
| 3.8.1.2           | 3.8.1.2    | Transportation and Communication     | Hospital has its own well-equipped ambulance at least 2                                                                                                                                        |
| 3.8.1.3           | 3.8.1.3    | Transportation and Communication     | The hospital has access to utility van                                                                                                                                                         |
| 3.8.2.1           | 3.8.2.1    | Transportation and Communication     | The hospital has telephone with intercom (EPABX) network.                                                                                                                                      |
| <i>Governance</i> |            |                                      |                                                                                                                                                                                                |
| 1.1.1             | 1.1.1      | Governance                           | Hospital Management Committee is formed                                                                                                                                                        |
| 1.1.4.2.7         | 1.1.4.2.7  | Governance                           | Review of decisions and recommendations of staff meeting and QI Committee meetings discussions                                                                                                 |
| 1.1.6             | 1.1.6      | Governance                           | Annual plan & budget is approved by HMC before the fiscal year starts                                                                                                                          |
| 1.2.4             | 1.2.4      | Organizational Management            | Hospital implements token and / or queue system for users (separate for elderly, disable and pregnant)                                                                                         |
| 1.4.5.2           | 1.4.5.2    | Financial Management                 | Internal audit, financial and physical progress review is done at least once each trimester (once in every 4 months).                                                                          |
| 1.4.7.1           | 1.4.7.1    | Financial Management                 | The hospital prepares and keeps monthly financial report.                                                                                                                                      |
| 1.4.9             | 1.4.9      | Financial Management                 | Inventory inspection is done once in a year and managed accordingly                                                                                                                            |
| 1.6.1.2           | 1.6.1.2    | Quality Management                   | Hospital (QHSDMS) Committee meetings are held at least every 4 months                                                                                                                          |

|         |           |                             |                                                                                                                      |
|---------|-----------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| 2.9.1.9 | 1.6.7.1   | Quality Management          | Hospital has implemented the specific activities based on the MSS plan.                                              |
| 1.6.8.1 | 1.6.8.1   | Quality Management          | The hospital has functional MPDSR committee (in program district)                                                    |
| 2.3.12  | 2.3.12    | Emergency Service           | Separate inventories for emergency lifesaving drugs/equipment and narcotics are maintained                           |
| 2.5.2.1 | 2.5.2.1.1 | Pharmacy Service            | Drug and Therapeutic committee (DTC)                                                                                 |
| 2.8.9.2 | 2.8.9.2   | Surgery/ Operation Services | Separate area designated for post-operative care to stabilize the patient after surgery                              |
|         |           |                             |                                                                                                                      |
| 3.2.9   | 3.2.9     | Laundry                     | All linens are distributed using a proper method (basket supply system and on demand supply system).                 |
| 3.5.3   | 3.5.3     | Water supply                | Water quality test is done every year and report is available as per Nepal Drinking Water Quality Standards, 2005    |
| 3.6.1   | 3.6.1     | Hospital Waste Management   | There is work plan prepared and implemented by hospital for hospital waste management                                |
| 3.6.3   | 3.6.3     | Hospital Waste Management   | There is separate area/space designated for solid waste storage and management with functional hand washing facility |
| 3.6.10  | 3.6.10    | Hospital Waste Management   | Pharmaceutical waste and radiological waste treated and disposed based on the HCWM guideline 2014 (MoHP)             |

### *Infrastructure*

|            |            |                                      |                                                                                                                                                                                                                                            |
|------------|------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1.8.3    | 2.3.3.5    | Emergency Service                    | Space allocated for duty room and changing room separate for male and female staffs with facilities of tea room                                                                                                                            |
| 2.3.3.6    | 2.3.3.6    | Emergency Service                    | Separate toilets for staffs at least one each male, female and universal                                                                                                                                                                   |
|            | 2.3.3.7    | Emergency Service                    | Separate toilets for staffs at least one each male, female and universal                                                                                                                                                                   |
| 2.3.14.3   | 2.3.14.3   | Emergency Service                    | There are at least 3 toilets with hand-washing facilities (1 for males, 1 for females, and 1 universal) for every 10 ER beds and for additional beds increase proportionately for male and female                                          |
| 2.6.10.2   | 2.6.10.2   | Inpatient Service                    | There are adequate separate toilets for male and female patients in each ward (1 for 6 female bed and 1 for 8 male beds) and also adequate wash basins/sinks for the patients. (See Checklist 2.6 At the end of this standard for scoring) |
| 2.7.1.10.2 | 2.7.1.10.2 | Delivery Service                     | Separate toilet for patient is available in pre-labor room and accessible to patient after delivery                                                                                                                                        |
| 2.7.2.8.2  | 2.7.2.8.2  | Delivery Service                     | There are adequate toilets for male and female patients in each ward (1 for 6 female bed)                                                                                                                                                  |
| 2.8.1.3    | 2.8.1.3    | Surgery/Operation Service            | Primary: At least two functional operating rooms/theater<br>Secondary A: At least four functional operating rooms/theater                                                                                                                  |
| N/A        | 2.14.1     | Physiotherapy                        | Separate room for OPD physiotherapy with at least 10 physiotherapy beds with 5 exercise beds and 5 electric beds                                                                                                                           |
| 3.1.1.2    | 3.1.1.2    | CSSD                                 | There are separate rooms designated for dirty utility, cleaning, washing and drying and sterile area for sterilizing, packaging and storage                                                                                                |
| 3.4.2.3    | 3.4.2.3    | Repair, Maintenance and Power system | Separate room for storage of repairing tools and instrument                                                                                                                                                                                |

### *Services*

*All service indicators are listed in Tables 4a and 4b for Primary and Secondary A hospitals, respectively.*

### *Staffing*

|         |         |                                            |                                                                                                                                          |
|---------|---------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.3   | 1.1.3   | Governance                                 | Medical Superintendent is fulfill as per organogram                                                                                      |
| 1.3.3.1 | 1.3.3.1 | Human Resources Management and Development | Staffs available for service in hospital as per organogram (See Annex 1.3a Functional Organogram Section I: At the end of this standard) |
| 1.4.1.2 | 1.4.1.2 | Financial Management                       | At least one accountant available for hospital financial management                                                                      |
|         | 1.5.4.2 | Medical Records and                        | An information officer is specified to communicate with patients/clients, their relatives,                                               |

|             |             |                                           |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|-------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |             | Information Management                    | media and other stakeholders.                                                                                                                                                                                                                                                                                                                                      |
| 2.1.2.1     | 2.1.2.1     | OPD Service                               | Doctor: OPD Patients- 1:35-50 per day for quality of care                                                                                                                                                                                                                                                                                                          |
| 2.1.2.2     | 2.1.2.2     | OPD Service                               | One screening counter with 1 paramedics                                                                                                                                                                                                                                                                                                                            |
| 2.2.1.2     | 2.2.1.2     | Immunization and Growth Monitoring Clinic | Adequate numbers of healthcare workers are available (at least 2 mid-level health workers are assigned)                                                                                                                                                                                                                                                            |
| 2.2.2.3     | 2.2.2.3     | Family Planning Clinic                    | Adequate numbers of healthcare workers are available (at least 2 mid-level health workers are assigned)                                                                                                                                                                                                                                                            |
| 2.2.3.2     | 2.2.3.2     | ATT, ART clinic                           | Adequate numbers of healthcare workers are available in OPD (at least 2 mid-level health workers are assigned)                                                                                                                                                                                                                                                     |
| 2.2.4.3.2   | 2.2.4.3.2   | Safe Abortion Services                    | For surgical abortion, at least one medical officer or gynecologist or MDGP trained and certified in second trimester SAS is available                                                                                                                                                                                                                             |
| 2.3.2.1     | 2.3.2.1     | Emergency Service                         | For 5-10 ER beds (Doctor: Nurse: Paramedics: Office Assistant = 1:1:1:1)                                                                                                                                                                                                                                                                                           |
| 2.5.6.1     | 2.5.6.1     | Pharmacy Service                          | Pharmacy department is led by at least one clinical pharmacist                                                                                                                                                                                                                                                                                                     |
| 2.5.6.2     | 2.5.6.2     | Pharmacy Service                          | Pharmacy has at least 3 pharmacist, 6 assistant pharmacist and 2 office assistants                                                                                                                                                                                                                                                                                 |
| 2.6.5       | 2.6.5       | Inpatient Service                         | Adequate numbers of nursing staff are available in ward per shift (nurse patient ratio 1:6 in general ward, 1:4 in pediatric ward, 1:2 in high dependency or intermediate ward or post-operative ward or burn/plastic) and at least one trained office assistant/ward attendant per shift in each ward (See Checklist 2.6 At the end of this standard for scoring) |
| 2.7.1.2.1.1 | 2.7.1.2.1.1 | Maternity Services                        | Nurse: pregnant women ratio 1:2 in pre-labor; 2:1 per delivery table and 1:6 in post-natal ward                                                                                                                                                                                                                                                                    |
| 2.7.1.2.1.2 | 2.7.1.2.1.2 | Maternity Services                        | At least one ASBA trained medical officer on duty                                                                                                                                                                                                                                                                                                                  |
| 2.7.1.2.1.3 | 2.7.1.2.1.3 | Maternity Services                        | At least one office assistant is available per shift                                                                                                                                                                                                                                                                                                               |
| 2.7.2.4.1   | 2.7.2.4.1   | Delivery Service                          | Adequate numbers of nursing staff are available in ward per shift (nurse patient ratio 1:6 in general ward)                                                                                                                                                                                                                                                        |
| 2.7.2.4.2   | 2.7.2.4.2   | Delivery Service                          | At least one trained office assistant per shift in each ward                                                                                                                                                                                                                                                                                                       |
| 2.8.2.1     | 2.8.2.1     | Surgery/ Operation Services               | For one surgery, at least a team is composed of: MS/MDGP with one trained medical officer, two OT trained nurse (one scrub and one circulating), one Anesthesiologist/MDGP, one anesthesia assistant and one office assistant ( for cleaning and helping)                                                                                                          |
| 2.8.2.2     | 2.8.2.2     | Surgery/ Operation Services               | For overall management of operation theatre, there is one OT nurse (with minimum bachelors degree) assigned as OT in-charge                                                                                                                                                                                                                                        |
| N/A         | 2.8.2.3     | Surgery/ Operation Services               | At least two nurses in pre-anesthesia area for receiving and transferring of the patient and                                                                                                                                                                                                                                                                       |
| N/A         | 2.8.2.4     | Surgery/ Operation Services               | At least two ICU trained nurses for post anesthesia care for receiving patient after OT                                                                                                                                                                                                                                                                            |
| 2.8.8.4.1   | 2.8.8.4     | Surgery/ Operation Services               | Anesthesia should be provided, led, or overseen by an anesthesiologist                                                                                                                                                                                                                                                                                             |
| 2.8.8.4.2   | N/A         | Surgery/Operation Service                 | When anesthesia is provided by non-physician anesthesiologists, these providers should be directed and supervised by anesthesiologists/ MDGP.                                                                                                                                                                                                                      |
| 2.9.1.2     | 2.9.1.1.2   | Laboratory                                | At least 2 medical technologist, 3 lab staffs (1 lab Technician, 1 Lab Assistant and 1 Helper) in each shift                                                                                                                                                                                                                                                       |
| N/A         | 2.9.1.2.2   | Blood bank                                | Adequate numbers of trained healthcare workers are available in blood bank (at least 2 blood bank staffs to cover shifts including ER)                                                                                                                                                                                                                             |
| 2.9.2.2     | 2.9.2.2     | X-Ray Service                             | Adequate numbers of trained healthcare workers are available in x-ray (at least 2 staffs to cover shifts including ER) with on call radiologist                                                                                                                                                                                                                    |
| 2.9.3.2     | 2.9.3.2     | Ultrasonography (USG)                     | USG trained medical practitioner and midlevel health worker in each USG room                                                                                                                                                                                                                                                                                       |
| 2.10.2      | 2.10.2      | Dental Service                            | Dental Hygienist/Dentist : OPD Patients- 1:20 per day for quality of care                                                                                                                                                                                                                                                                                          |
| 2.11.3      | 2.11.3      | Postmortem                                | At least one MD forensic and one trained medical officer for autopsy and clinical medico-legal services                                                                                                                                                                                                                                                            |
| 2.12.3      | 2.12.3      | Medico-Legal Services                     | Trained medical officer for medicolegal services at least one.                                                                                                                                                                                                                                                                                                     |



|                 |             |                                                    |                                                                                                                                                                                                                                                                          |
|-----------------|-------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N/A             | 2.13.5.2    | One Stop Crisis Management Center (OCMC)           | At least two Staff nurse working in the hospital and 1 trained psycho social counselor                                                                                                                                                                                   |
| N/A             | 2.14.3      | Physiotherapy                                      | At least 1 physiotherapist trained in Masters in Physiotherapy (MPT), 2 trained in Bachelors in Physiotherapy (BPT), and 2 Certificate in physiotherapy (CPT) or Diploma in physiotherapy (DPT) and 1 trained office assistant treating 20 patients per day on OPD basis |
| 3.1.2           | 3.1.2       | CSSD                                               | Separate staffs assigned for CSSD and is led by CSSD trained personal                                                                                                                                                                                                    |
| 3.3.2.1         | 3.3.2.1     | Housekeeping                                       | Allocation of the staff for cleaning with visible duty roster                                                                                                                                                                                                            |
| 3.4.1.1         | 3.4.1.1     | Repair, Maintenance and Power system               | Human resource trained in biomedical engineer is designated for repair and maintenance                                                                                                                                                                                   |
| 3.6.2.1         | 3.6.2.1     | Hospital Waste Management                          | There is allocation of staff for HCWM from segregation to final disposal                                                                                                                                                                                                 |
| 3.7.1.1         | 3.7.1.1     | Safety and Security                                | Hospital has trained security personnel round the clock.                                                                                                                                                                                                                 |
| <i>Supplies</i> |             |                                                    |                                                                                                                                                                                                                                                                          |
| N/A             | 2.2.1.5     | Immunization and Growth Monitoring Clinic          | Immunization and growth monitoring instrument, equipment and supplies are available (See Annex 2.2.1a Immunization and growth monitoring At the end of this standard)                                                                                                    |
| 2.2.3.5         | 2.2.3.5     | ATT, ART clinic                                    | Medicines for TB, HIV/AIDS as per government treatment protocol available in OPD                                                                                                                                                                                         |
| 2.4.4           | 2.4.4       | Dressing Injections and Procedures Room            | Medicines and supplies needed for dressing, injection and routine procedures are available (See Annex 2.4c Medicine and Supplies for DIRP At the end of this standard)                                                                                                   |
| N/A             | 2.4.5.1     | Dressing and injections, Routine procedures (DRIP) | Sterile supply for Minor OT are available (See Annex 2.4d Sterile Supplies for Minor OT At the end of this standard).                                                                                                                                                    |
| 2.4.5.1         | N/A         | Dressing Injections and Procedures Room            | Adequate quantity of sterilized packs for wound dressing are available (See Annex 2.4d Sterile Supplies for DIRP At the end of this standard)                                                                                                                            |
| 2.3.5.1         | 2.3.5.1     | Emergency Service                                  | Medicines and supplies to carry out the ER works are available (See Annex 2.3c Medicines and Supplies for ER At the end of this standard)                                                                                                                                |
| 2.5.8           | 2.5.8       | Pharmacy Service                                   | All of the required medicines and supplies for specific programs are available in pharmacy (less than 50%= 0; 50-70 =1, 70-85=2 85-100= 3)                                                                                                                               |
| 2.6.3           | 2.6.3.1     | Inpatient Service                                  | Medicine Ward (See Annex 2.6b medicine and supplies for inpatient wards At the end of this standard)                                                                                                                                                                     |
| 2.6.8.2         | 2.6.3.2     | Inpatient Service                                  | Surgery Ward (See Annex 2.6b medicine and supplies for inpatient wards At the end of this standard)                                                                                                                                                                      |
| N/A             | 2.6.3.3     | Inpatient Service                                  | Pediatrics Ward (See Annex 2.6b medicine and supplies for inpatient wards At the end of this standard)                                                                                                                                                                   |
| 2.7.1.4         | 2.7.1.4     | Maternity Services                                 | Partograph available and being used rationally                                                                                                                                                                                                                           |
| 2.7.1.9.3       | 2.7.1.11.8  | Maternity Services                                 | Dry gauze and cotton are stored separately in clean containers.                                                                                                                                                                                                          |
| 2.8.7.3         | 2.8.7.3     | Surgery/ Operation Services                        | Each operating room has medicines and supplies available (See Annex 2.8g General Medicine and Supplies for OT At the end of this standard)                                                                                                                               |
| 2.8.8.3         | 2.8.8.3     | Surgery/ Operation Services                        | Medicine and supplies for anesthesia available (See Annex 2.8j Medicine and Supplies for Anesthesia At the end of this standard)                                                                                                                                         |
| 2.7.1.9.4       | 2.7.1.9.4   | Maternity Services                                 | Labor room has emergency cart with medicines and supplies available (See Annex 2.7.1c Medicines and Supplies for ER[2] Trolley Labor Room At the end of this standard)                                                                                                   |
| 2.7.2.7.2       | 2.7.2.7.2   | Delivery Service                                   | At least one emergency trolley with emergency medicine available in ward (Annex 2.7.2c Medicine and Supplies for ER Trolley for Maternity In patient Ward At the end of this standard)                                                                                   |
| 2.9.1.8.1       | 2.9.1.1.8.1 | Laboratory                                         | At least three months buffer stock of laboratory supplies is available.                                                                                                                                                                                                  |
| N/A             | 2.9.1.2.8.2 | Blood bank                                         | Blood bags, transfusion sets, blood and blood components, reagents are stored at appropriate temperature in store and lab                                                                                                                                                |
| 2.11.4          | 2.11.4      | Postmortem                                         | Adequate supplies and instruments for forensic services (See Annex 2.11a Supplies and instrument for post mortem At the end of this standard)                                                                                                                            |
| 3.1.4           | 3.1.4       | CSSD                                               | Wrapper, gauze, cotton balls, bandages are prepared.                                                                                                                                                                                                                     |

|                 |              |                                            |                                                                                                                                                        |
|-----------------|--------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.4.2.4         | 3.4.2.4      | Repair, Maintenance and Power system       | Availability of spare parts for repair and maintenance of biomedical equipment and instruments                                                         |
| 3.7.4           | 3.7.4        | Safety and Security                        | The hospital has replaced all mercury apparatus with other appropriate technologies.                                                                   |
| 3.9.2.1         | 3.9.2.1      | Store (Medical and logistics)              | A separate hospital medical store with 3 months' buffer stock is available                                                                             |
| <i>Training</i> |              |                                            |                                                                                                                                                        |
| 1.3.6.1         | 1.3.6.1      | Human Resources Management and Development | A training plan for the hospital is developed based on the training needs of the staff identified at the performance appraisal                         |
| 1.3.7.1         | 1.3.7.1      | Human Resources Management and Development | Hospital conducts CPD / CME classes to technical staff weekly                                                                                          |
| 1.5.4.1         | 1.5.4.1      | Medical Records and Information Management | Medical recorder is trained on ICD and DHIS2                                                                                                           |
| 2.2.4.3.1       | 2.2.4.3.1    | Safe Abortion Services                     | At least one medical officer or gynecologist trained and certified in first trimester SAS is available                                                 |
| 2.2.4.6         | 2.2.4.6      | Safe Abortion Services                     | WHO safe surgery checklist is available and used for safe abortion services including written informed consent                                         |
| 2.3.2.2         | 2.3.2.2      | Emergency Service                          | The doctor, nurse and paramedics are trained in PTC, ETM, BLS and ACLS training                                                                        |
| 2.3.10.1        | 2.3.10.1     | Emergency Service                          | The hospital has mass casualty management protocol, and all staffs are updated with well labelled direction, prepositioning clipboards                 |
| 2.3.10.3        | 2.3.10.3     | Emergency Service                          | Hospital carried out at least one mock preparedness once a year                                                                                        |
| 2.6.8.1         | 2.6.8.1      | Inpatient Service                          | All staffs in wards are trained for BLS and oriented about emergency code 001 or blue code (See Checklist 2.6 At the end of this standard for scoring) |
| 2.7.1.2.2       | 2.7.1.2.2    | Maternity Services                         | All staffs- nursing, medical practitioner designated for delivery services are trained skilled birth attendants                                        |
| 2.7.2.7.1       | 2.7.2.7.1    | Delivery Service                           | All staffs in wards are trained for BLS and oriented about emergency code 001 or blue code                                                             |
| 2.8.5           | 2.8.5        | Surgery/ Operation Services                | The WHO Safe Surgery Checklist is available in OT and used                                                                                             |
| 2.9.1.10.2      | 2.9.1.1.10.2 | Laboratory                                 | All staffs know how to respond in case of spillage and other incidents                                                                                 |
| N/A             | 2.9.1.2.9.2  | Blood bank                                 | All staffs know how to respond in case of spillage and other incidents                                                                                 |
| N/A             | 2.13.7.1     | One Stop Crisis Management Center (OCMC)   | Whole site orientation on GBV clinical protocol conducted                                                                                              |
| 3.6.2.2         | 3.6.2.2      | Hospital Waste Management                  | Whole site coaching/ orientation on health care waste management is done                                                                               |
| 3.7.1.2         | 3.7.1.2      | Safety and Security                        | All security staffs are oriented with hospital codes like 001- call for help for crashing patients, 007- call for disaster in ER                       |
| 3.7.1.3         | 3.7.1.3      | Safety and Security                        | All security staffs have participated in emergency drills                                                                                              |
| 3.7.6.4         | 3.7.6.4      | Safety and Security                        | Disaster preparedness orientation has been given to all staff at least every six months.                                                               |