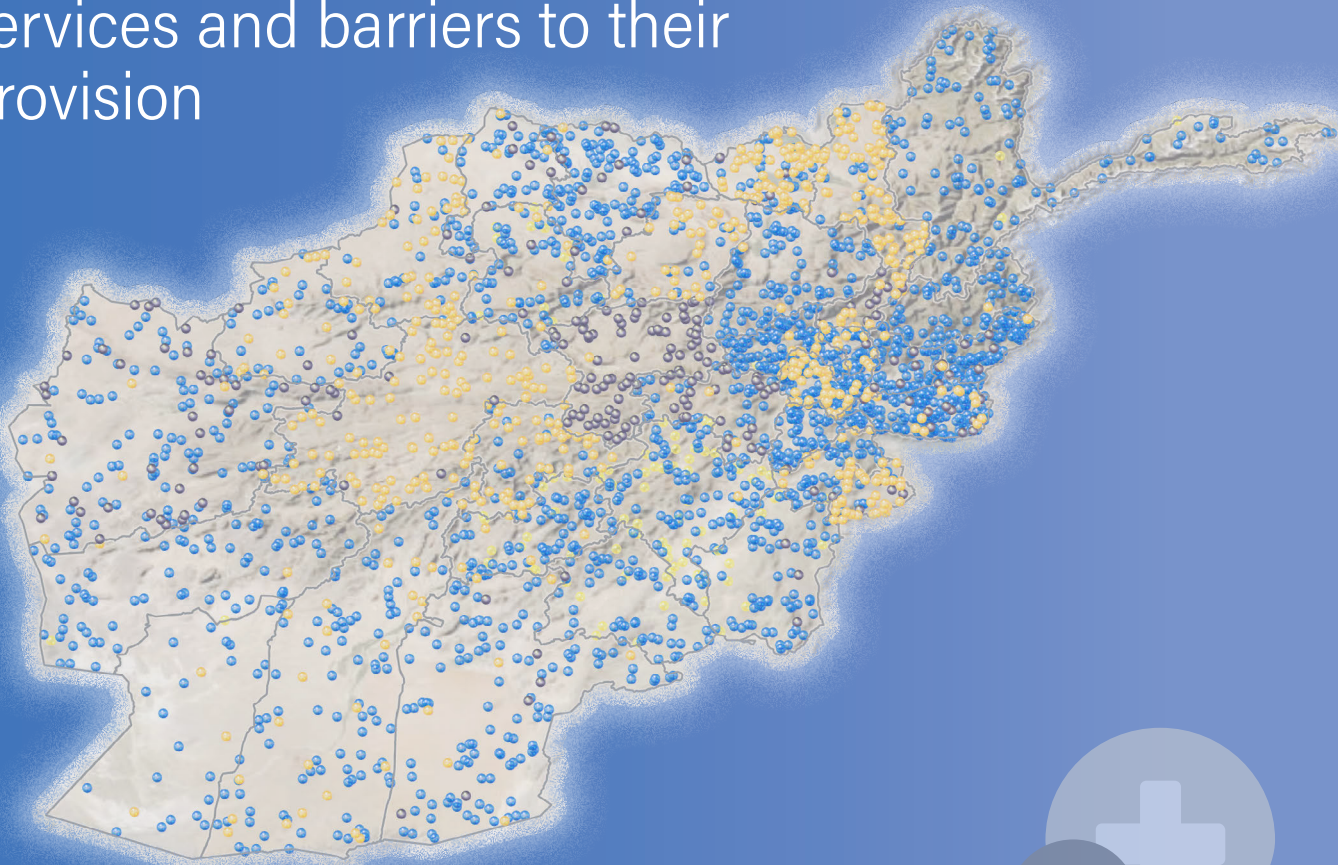


# HeRAMS Afghanistan Baseline Report 2022



## GENERAL CLINICAL AND TRAUMA CARE SERVICES

A comprehensive mapping  
of availability of essential  
services and barriers to their  
provision



March 2022



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# HeRAMS AFGHANISTAN

## BASLINE REPORT 2022

### General clinical and trauma care services

A comprehensive mapping of availability of essential services and barriers to their provision

March 2022

# ACRONYMS

<b>BHC</b>	Basic Health Center
<b>BHC+</b>	Basic Health Center Plus
<b>CHC</b>	Comprehensive Health Center
<b>CHC+</b>	Comprehensive Health Center Plus
<b>CT</b>	Computed Tomography
<b>DH</b>	District Hospital
<b>ESR</b>	Erythrocyte Sedimentation Rate
<b>FATP</b>	First Aid Trauma Post
<b>FHH</b>	Family Health House
<b>HeRAMS</b>	Health Resources and Services Availability Monitoring System
<b>MHT</b>	Mobile Health Team
<b>MRI</b>	Magnetic resonance imaging
<b>NH</b>	National Hospital
<b>NCD</b>	Non-communicable Diseases
<b>PH</b>	Provincial Hospital
<b>RH</b>	Regional Hospital
<b>SH</b>	Specialist Hospitals
<b>SHC</b>	Sub Health Center
<b>WBC</b>	White blood count
<b>WHO</b>	World Health Organization



# TABLE OF CONTENT

<b>Disclaimer</b>	<b>2</b>
<b>1. Availability of communicable disease services</b>	<b>3</b>
Interpretation guide	4
Overview of evaluated health facilities	5
Service availability by health facility type	6
Main barriers by health facility type	7
Service availability per catchment population	8
Main barriers impeding service delivery	10
<b>2. In-depth analysis by health service</b>	<b>13</b>
Interpretation guide	14
Request for ambulance services by the patient	16
Recognition of danger signs	18
Acuity-based formal triage	20
WHO basic emergency care by prehospital provider	22
WHO basic Emergency Care	24
Advanced Syndrome-based management	26
Monitored referral	28
Referral capacity	30
Acceptance of referrals	32
Acceptance of complex referrals	34
Outpatient services for primary care	36
Outpatient department for secondary care	38
Home visits	40
Minor trauma definitive management	42
Emergency and elective surgery	44
Emergency and elective surgery with at least two operating theaters	46
Orthopedic/trauma ward	48
Short hospitalization capacity	50
20 Inpatient bed capacity	52
50 inpatient bed capacity	54
Inpatient critical care management	56
Intensive care unit	58
Basic laboratory	60
Laboratory services secondary level	62
Laboratory services tertiary level	64
Blood bank services	66
Hemodialysis unit	68
Endoscopy services	70
Basic X-ray service	72
Radiology unit	74
Medical evacuation procedures	76
Procedures for mass casualty scenarios	78
<b>Annex</b>	<b>81</b>
Annex I: HeRAMS service definitions	82
Annex II: Population estimates	85

# DISCLAIMER

Disruptions to health systems can impede provision of and access to essential health services. Communities' vulnerability to increased morbidity and mortality substantially increases when a lack of reliable information prevents sound decision-making, especially in rapidly changing environments requiring continued assessment. The Health Resources and Services Availability Monitoring System (HeRAMS) aims to provide decision-makers and health stakeholders at large with vital and up-to-date information on the availability of essential health resources and services, help them identify gaps and determine priorities for intervention.

HeRAMS draws on the wealth of experience and knowledge gathered by the World Health Organization (WHO) and health sector actors, including nongovernmental organizations, donors, academic institutions and other technical bodies. It builds on a collaborative approach involving health service providers at large and integrating what is methodologically sound and feasible in highly constrained, low-resourced and rapidly changing environments such as humanitarian emergencies. Rapidly deployable and scalable to support emergency response and fragile states, HeRAMS can also be expanded to - or directly implemented as - an essential component of routine health information systems. Its modularity and scalability make it an essential component of emergency preparedness and response, health systems strengthening, universal health coverage and the humanitarian development nexus.

HeRAMS has been deployed in Afghanistan since November 2021 and has allowed for the assessment of 2730 health facilities across the country, against a total estimate of 3012 to date.

This analysis was produced based on the data collected up to March 22<sup>nd</sup> 2022 and while the deployment of HeRAMS, including data verification and validation, continue. Hence, this analysis is not final and is produced solely for the purposes of informing operations.

This is the second report of the **HeRAMS Afghanistan Baseline Report 2022** series focusing on the availability of general clinical and trauma care services. It is a continuation of the first report on the operational status of the health system<sup>1</sup> and should always be interpreted in conjunction with results presented in the first report. Additional reports are available on, child health and nutrition services<sup>2</sup>, communicable disease services<sup>3</sup>, sexual and reproductive health services<sup>4</sup>, and non-communicable disease and mental health services<sup>5</sup>.

Caution must be taken when interpreting the results presented in this report. Differences between information products published by WHO, national public health authorities, and other sources using different inclusion criteria and different data cut-off times are to be expected. While steps are taken to ensure accuracy and reliability, all data are subject to continuous verification and change.

For additional information, please see <https://www.who.int/initiatives/herams> or contact [herams@who.int](mailto:herams@who.int)

<sup>1</sup> HeRAMS Afghanistan Baseline Report - Operational status of the health system: A comprehensive mapping of the operational status health facilities, <https://www.who.int/publications/m/item/herams-afghanistan-baseline-report-2022-operational-status-of-the-health-system>.

<sup>2</sup> HeRAMS Afghanistan Baseline Report - Child health and nutrition services: A comprehensive mapping of availability of essential services and barriers to their provision, <https://www.who.int/publications/m/item/herams-afghanistan-baseline-report-2022-child-health-and-nutrition-services>.

<sup>3</sup> HeRAMS Afghanistan Baseline Report - Communicable disease services: A comprehensive mapping of availability of essential services and barriers to their provision, <https://www.who.int/publications/m/item/herams-afghanistan-baseline-report-2022-communicable-disease-services>.

<sup>4</sup> HeRAMS Afghanistan Baseline Report - Sexual and reproductive health services: A comprehensive mapping of availability of essential services and barriers to their provision, <https://www.who.int/publications/m/item/herams-afghanistan-baseline-report-2022-sexual-and-reproductive-health-services>.

<sup>5</sup> HeRAMS Afghanistan Baseline Report 2022 - Non-communicable disease and mental health services: A comprehensive mapping of availability of essential services and barriers to their provision. <https://www.who.int/publications/m/item/herams-afghanistan-baseline-report-2022-ncd-and-mental-health-services>.



# PART I:

## AVAILABILITY OF GENERAL CLINICAL AND TRAUMA CARE SERVICES



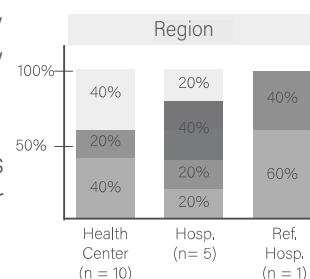
# INTERPRETATION GUIDE

## Service availability

The first part of the report provides an overview of availability of general clinical and trauma care services. It should be noted that the analysis was limited to operational health facilities. A summary of health facilities evaluated and their operational status is available on page 5. Further details on the operational status of health facilities can be found in the first report of the **HeRAMS Afghanistan Baseline Report 2022** series.

### Bar chart

Overall availability of general clinical and trauma care services is shown disaggregated by region and health facility type. The number of health facilities included is displayed below the health facility type name.



It should be noted that the number of services included was limited to health services expected based on national guidelines and depends on the type of health facility. Further details on services included for each type of health facilities is shown in [annex I](#).

### Service availability per population (heat map)

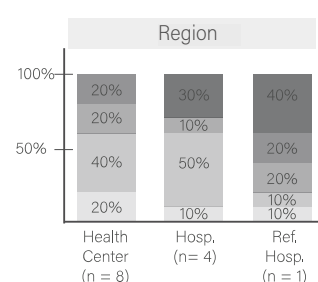
Service 1	0.9	0	0.4	2.1	0.7
Service 2	0.4	0	0.9	3.5	0.7
Service 3	0.3	0	0.7	0.3	0.2
Service 4	0.8	0	0.4	0.8	0.6
Service 5	0.5	0	0.9	1.9	0.8
	Province A	Province B	Province C	Province D	Province E

A more detailed overview of availability of individual services is shown as heat maps. Each cell indicates the number of health facilities providing a given service in relation to the catchment population. It should be noted that different catchment areas were used for referral and specialized health services (i.e. provincial vs. regional population estimates). For more details on population estimates, see [annex II](#).

To account for partially available services, a weighing was applied with a weight of 1 given to services reported as fully available and 0.5 for partially available services.

## Main barriers impeding service availability

### Bar chart



For services not or only partially available, main barriers impeding service delivery are displayed as percentage of all barriers reported. Alike for service availability, bar charts display main barriers disaggregated by health facility type and region with the number health facilities reporting at least one barrier indicated below the health facility type name. Note that for each service, up to three barriers could be reported. Hence, the percentages shown in these charts should not be used to make any conclusion on the frequency at which a barrier was reported nor on the percentage of health facilities having reported a barrier. For a conclusion on the overall frequency at which a given barrier was reported, please refer to the heat map below.

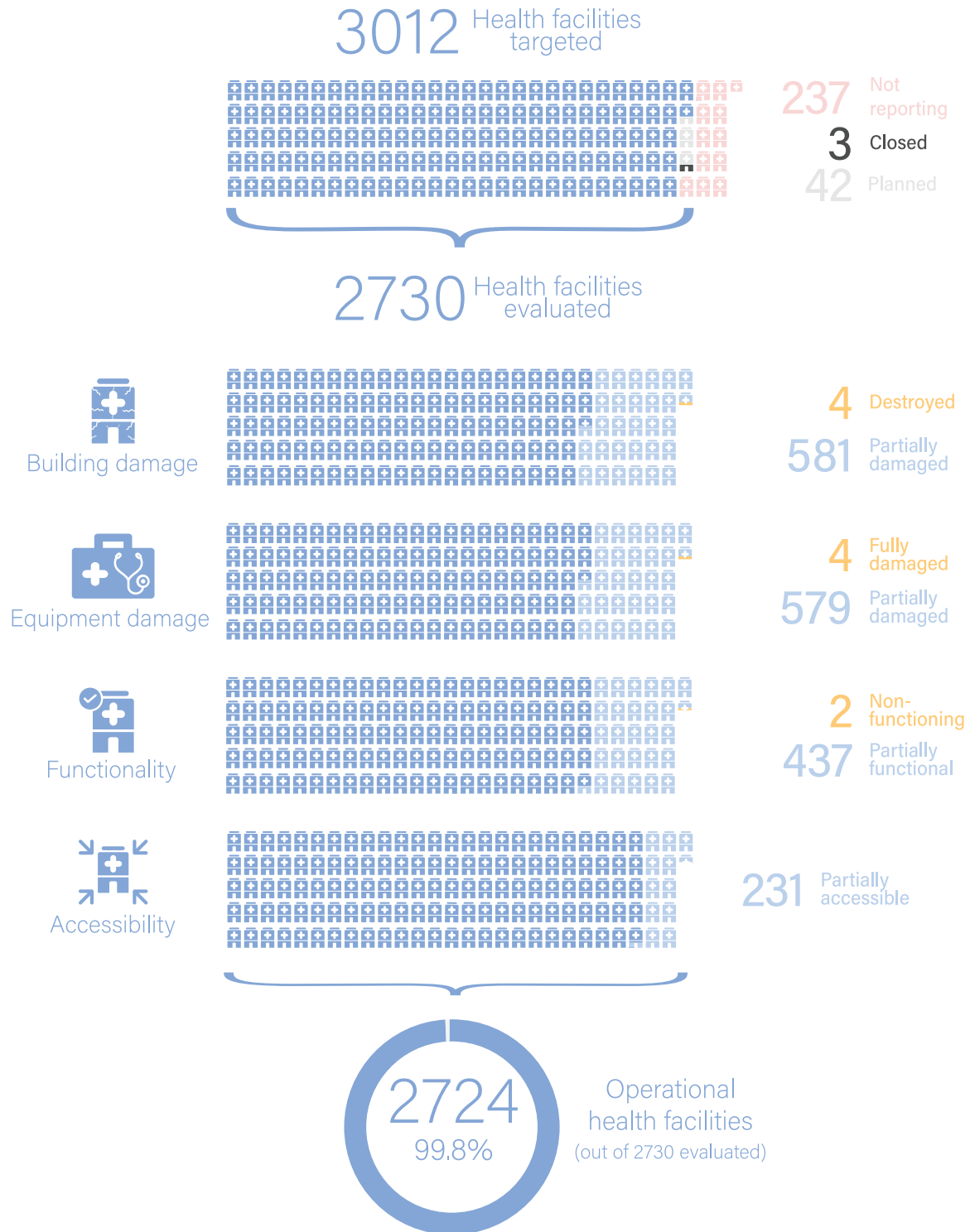
### Heat map

Heat maps provide additional insights on main barriers for individual services by catchment area. Cell opacity levels indicate the percentage of health facilities in the catchment area reporting a given barriers. The integer inside the cell denotes the number of health facilities reporting a given barrier while the percentage indicates the percentage of health facilities reporting the barrier. Note that health facilities not reporting a barrier (i.e. health facilities where the service is fully available or not normally provided) were excluded from these charts.

Service 1	2 20%	3 30%	5 50%	1 10%	5 50%
Service 2	6 60%	2 20%	1 10%	5 50%	7 70%
Service 3	8 80%	4 40%	4 40%		2 20%
Service 4	3 30%	7 70%	1 10%		5 50%
Service 5	1 10%	3 30%	2 20%		3 30%
	Province A	Province B	Province C	Province D	Province E

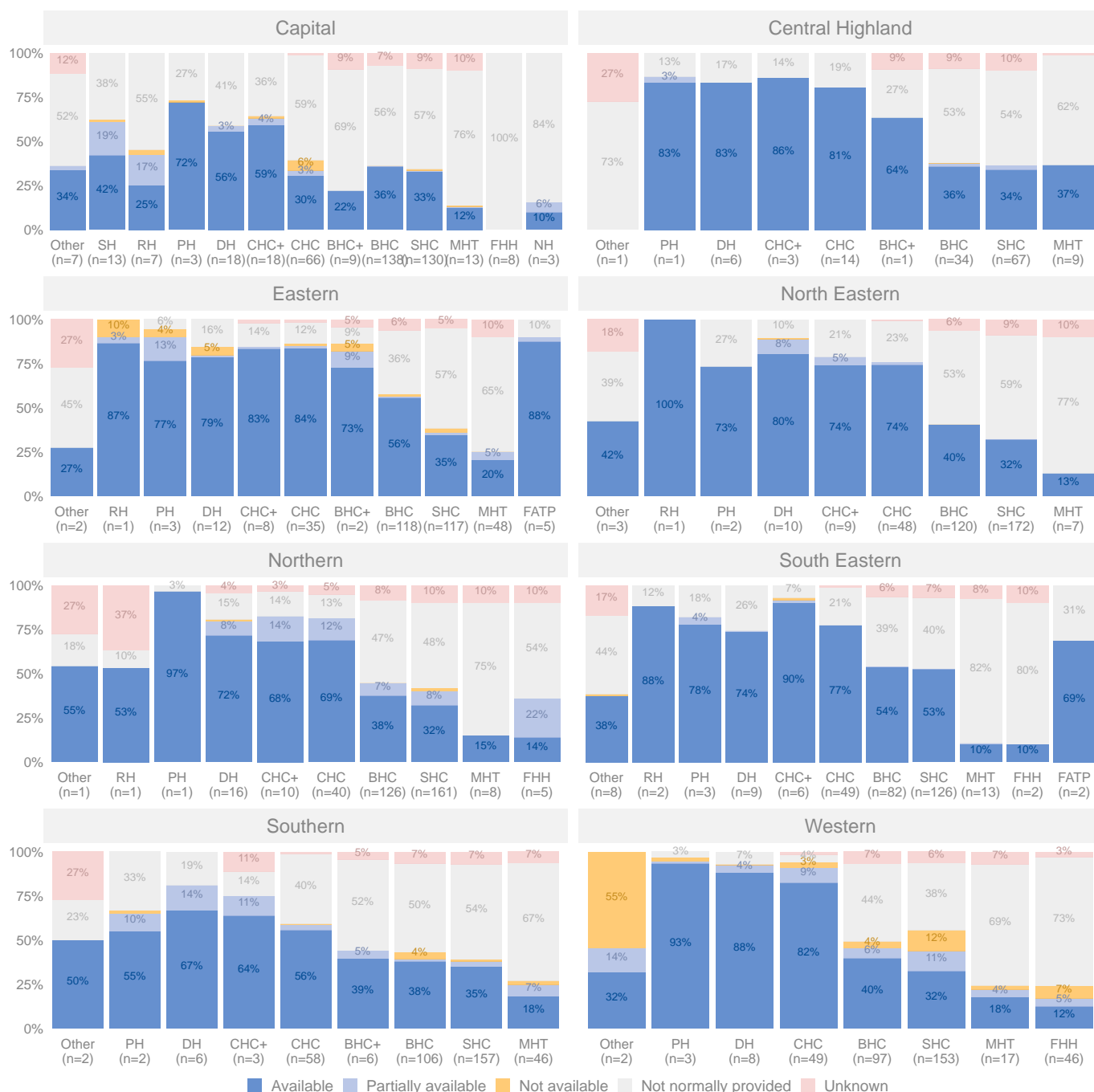
# OVERVIEW OF HEALTH FACILITIES EVALUATED

Summary of health facilities evaluated



# SERVICE AVAILABILITY BY HEALTH FACILITY TYPE

Availability of essential services by region and health facility type



Number of services included by health facility type<sup>6</sup>

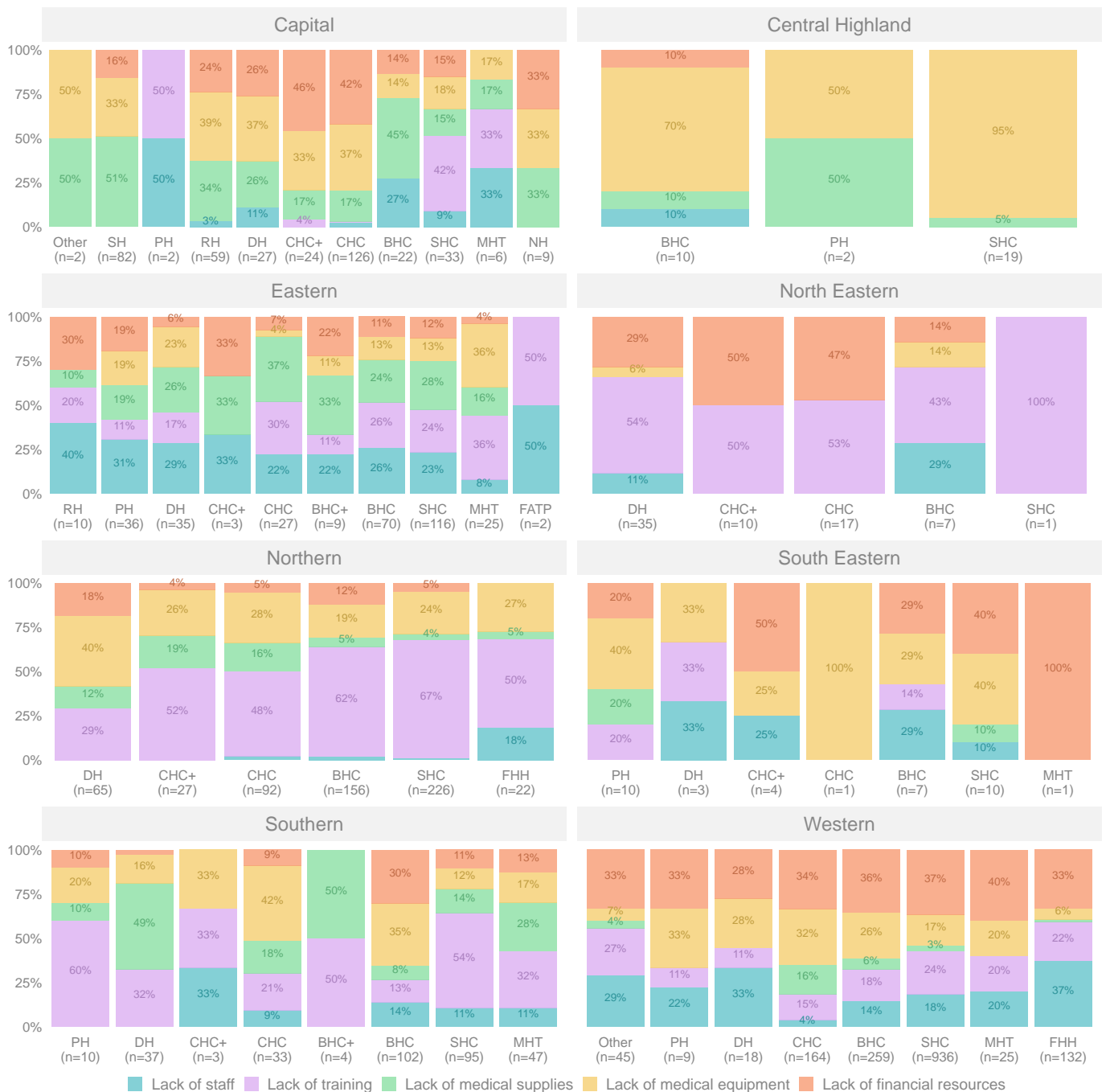
NH	SH	RH	PH	DH	CHC+	CHC	BHC+	BHC	SHC	MHT	FHH	FATP	Other
30	25	30	30	23	12	11	11	11	10	10	10	8	11

<sup>6</sup> See annex I for a comprehensive description of services included for each health facility type.



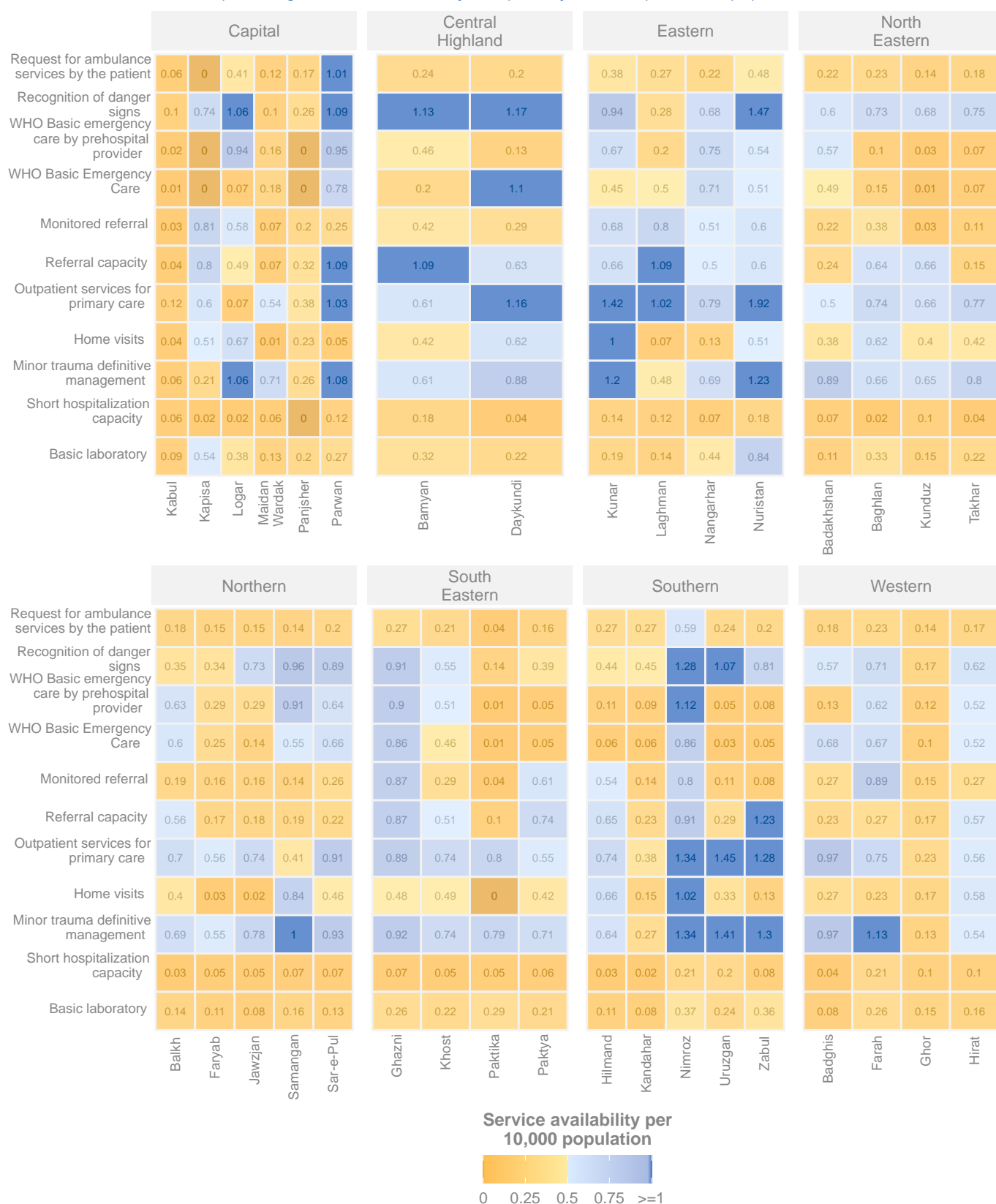
# MAIN BARRIERS BY HEALTH FACILITY TYPE

Main barriers impeding availability of essential health services by region and health facility type

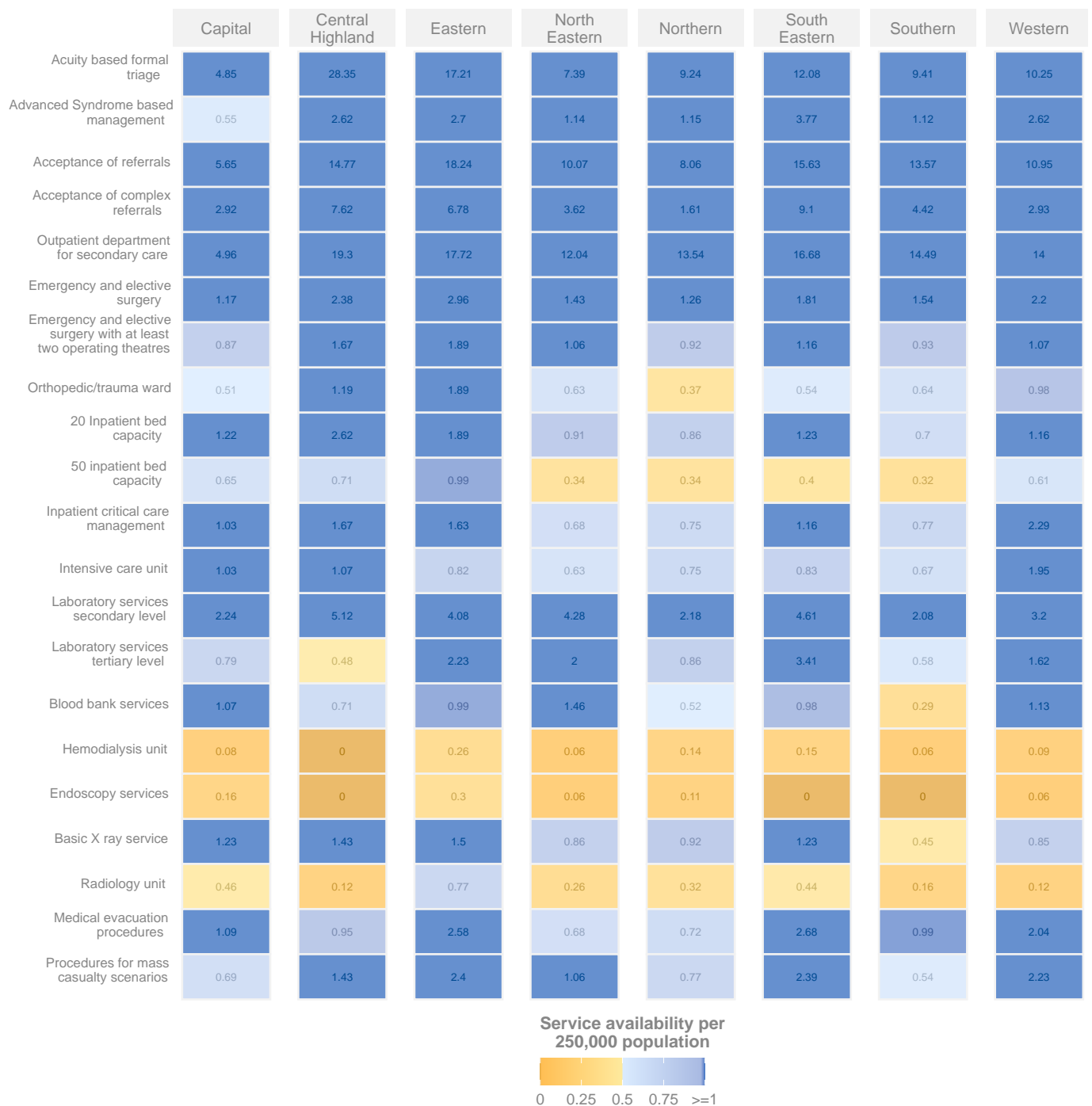


# SERVICE AVAILABILITY BY CATCHMENT POPULATION

Number of health facilities providing essential community and primary services per 10,000 population<sup>7</sup>



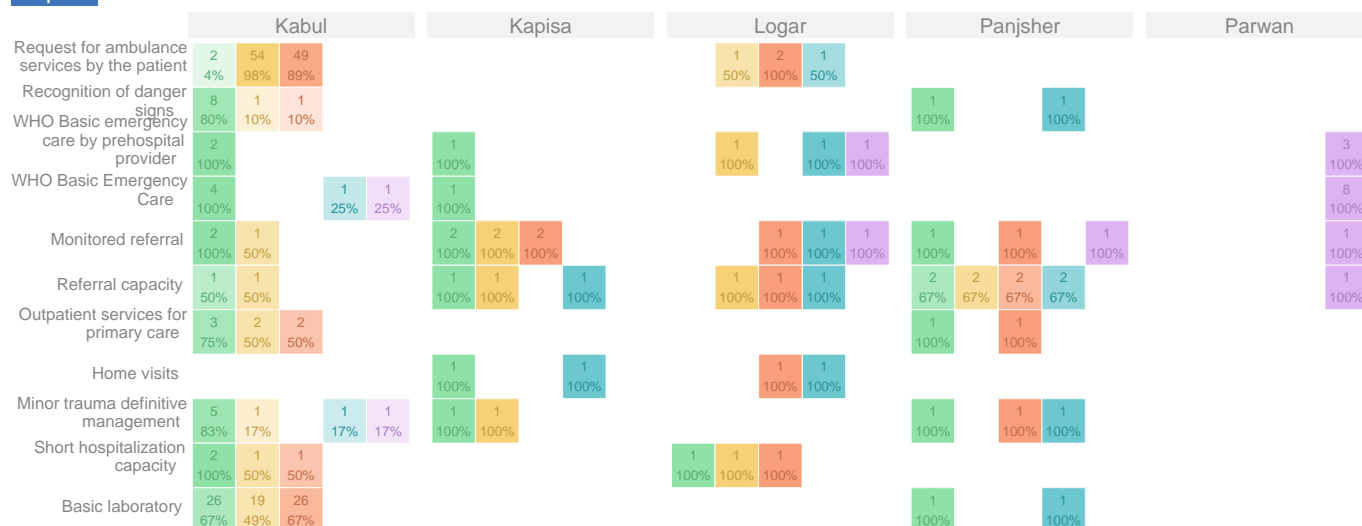
<sup>7</sup> See annex II for an overview of provincial and regional population estimates.

Number of health facilities providing specialized services per 250,000 population<sup>8</sup><sup>8</sup> See annex II for an overview of provincial and regional population estimates.

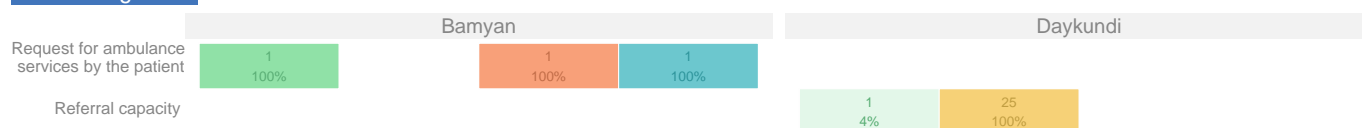
# MAIN BARRIERS IMPEDING SERVICE DELIVERY

Main barriers impeding availability of essential community and primary health services by province

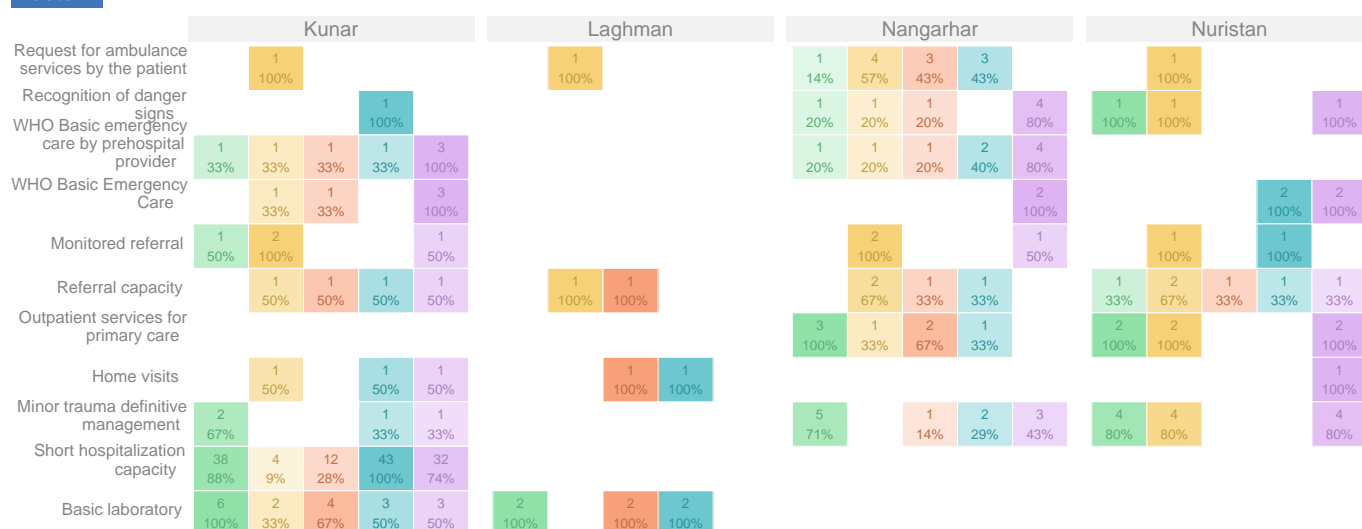
## Capital



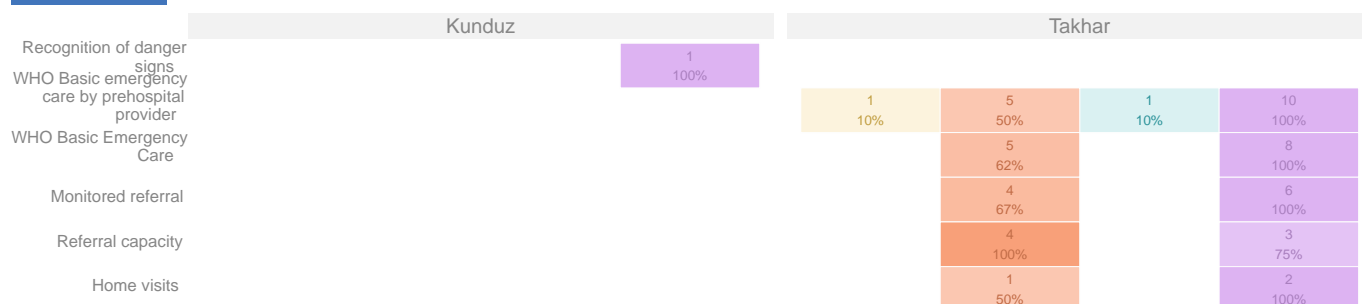
## Central Highland



## Eastern



## North Eastern



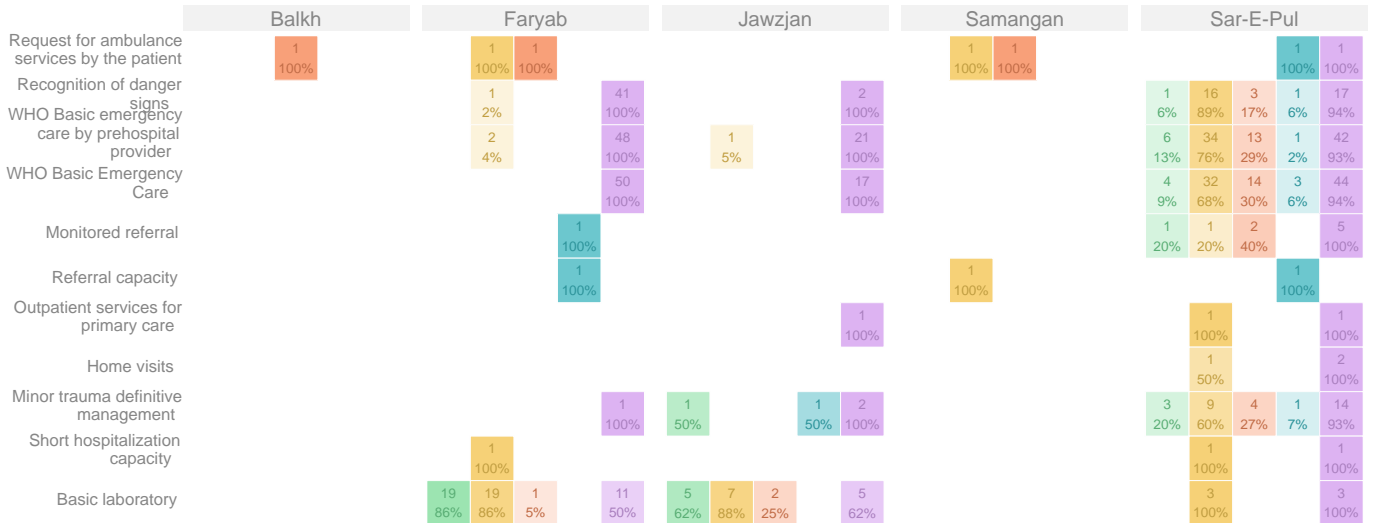
### Type of barrier



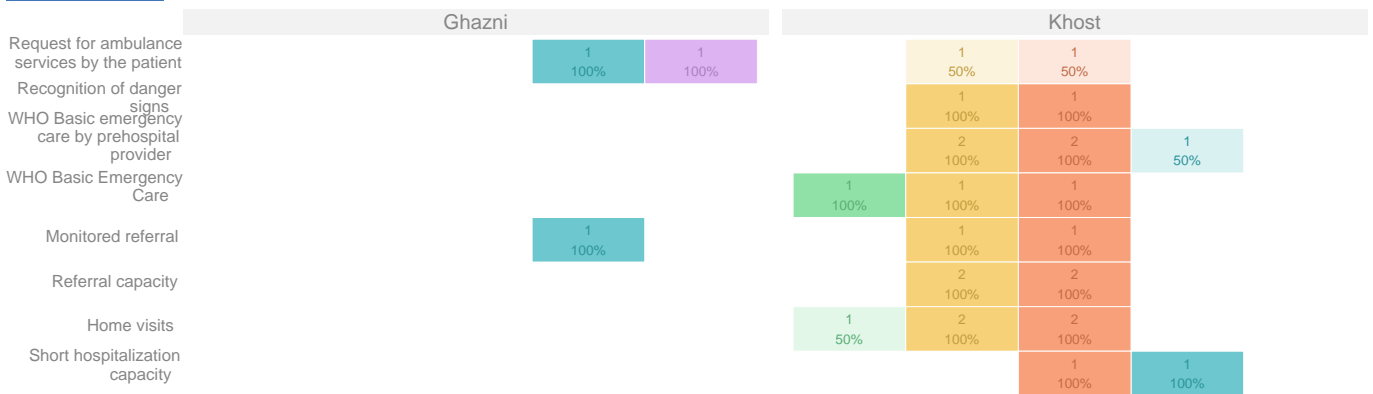
### % of health facilities reporting a barrier



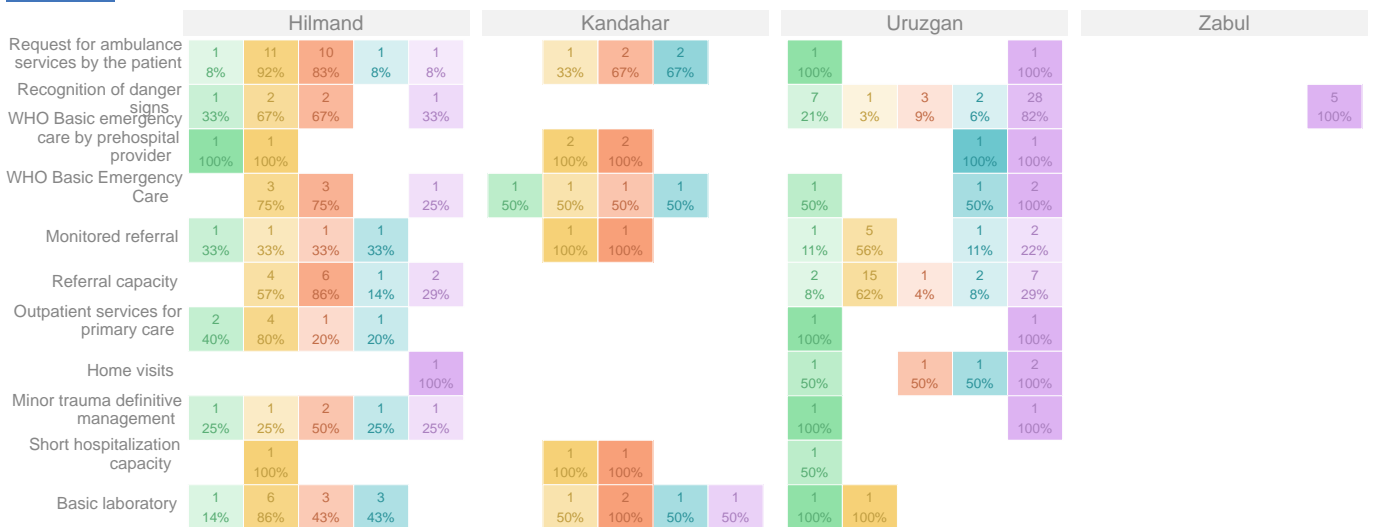
## Northern



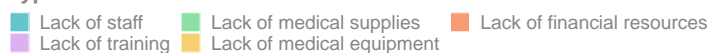
## South Eastern



## Southern



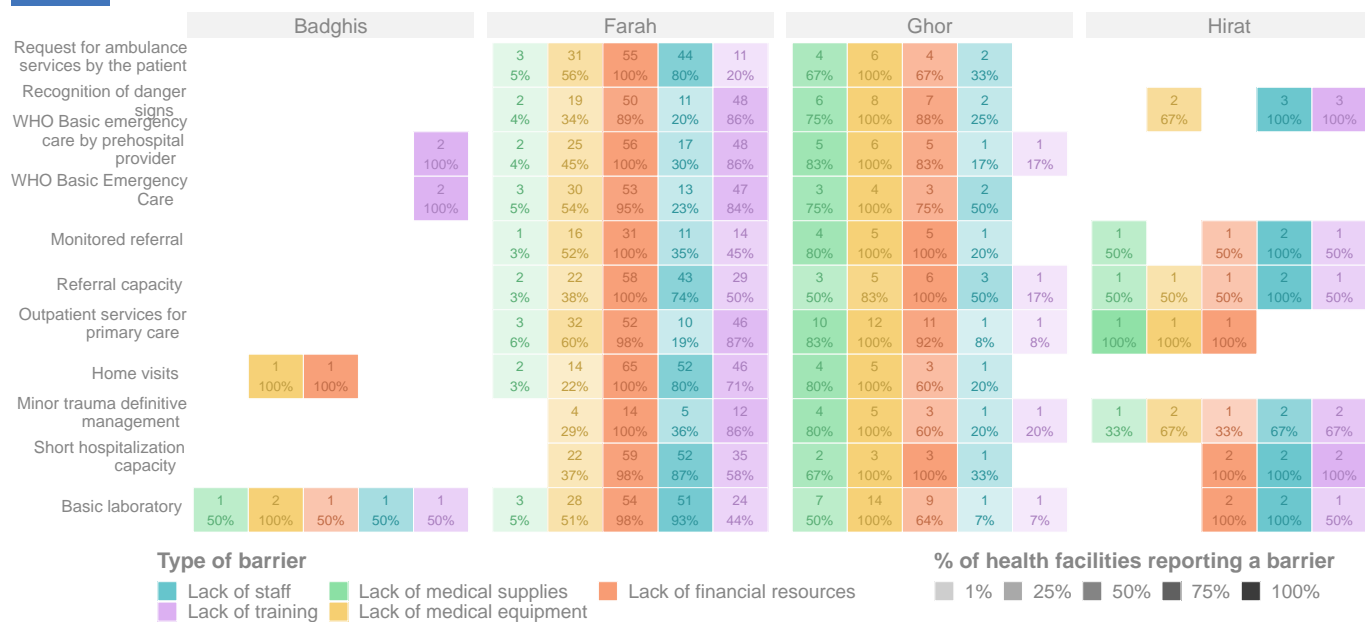
### Type of barrier



### % of health facilities reporting a barrier

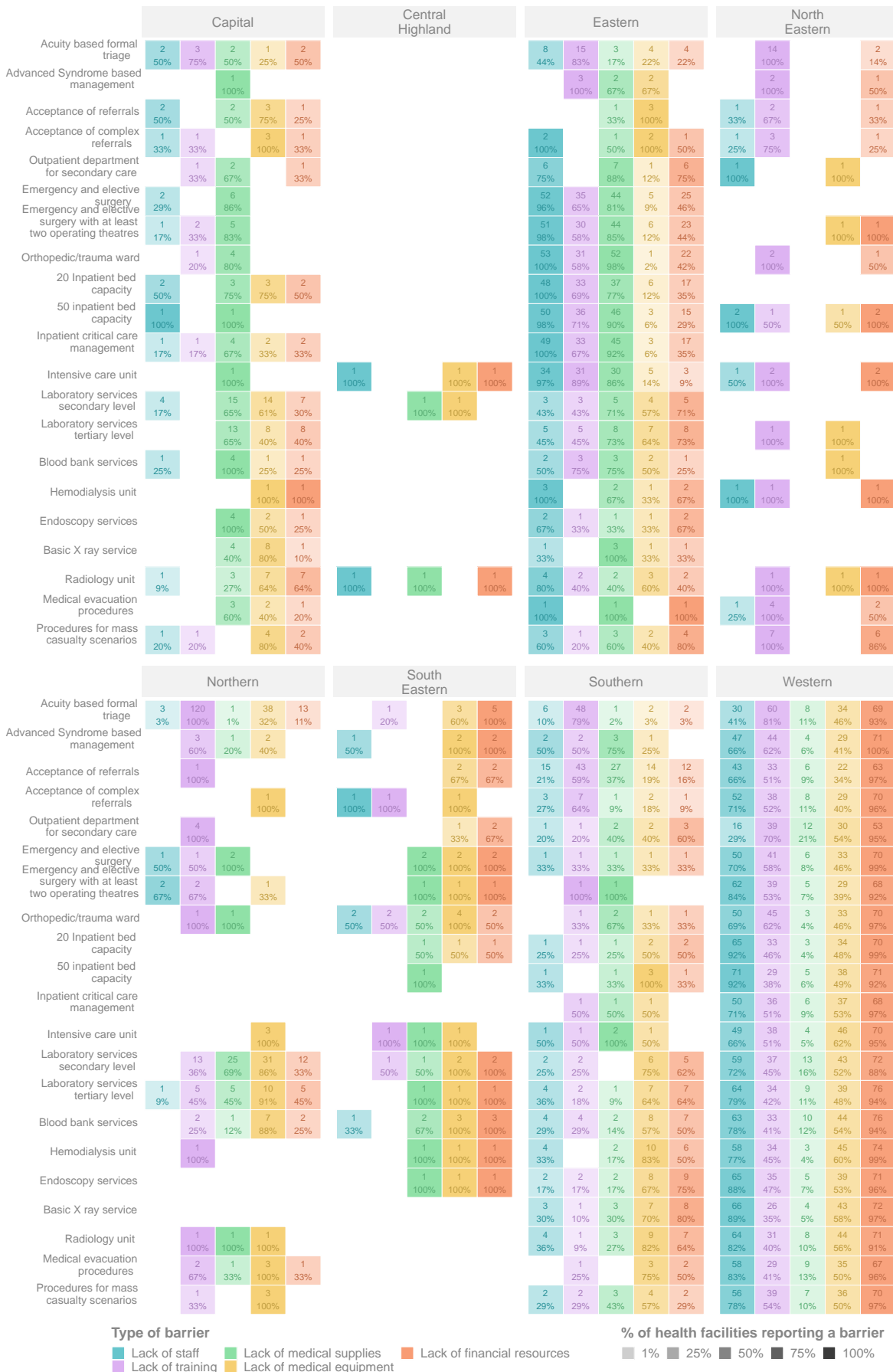


## Western





## Main barriers impeding availability of specialized services by region







# PART II:

## IN-DEPTH ANALYSIS BY HEALTH SERVICE

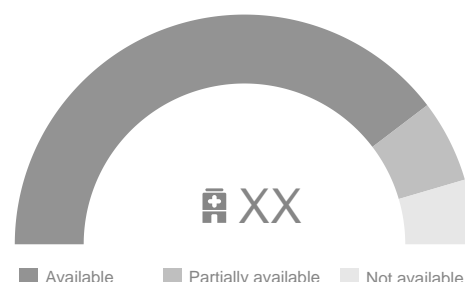


# INTERPRETATION GUIDE

## Indicator status

### Arc charts

An arc chart provides an overview of the overall availability of a health service. The number shown inside the arc chart indicates the total number of health facilities included in the analysis of a services. It should be noted that the analysis of service availability and main barriers impeding service delivery was limited to operational health facilities (see page 5 for details).



### Column charts

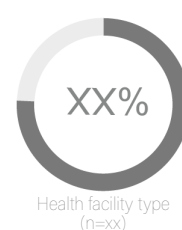
Column charts present the status of a health service by region or by region and health facility type. The number of health facilities per region is shown below the region's name.

Note, these charts exclude health facilities where the service is not normally provided or availability is unknown.



### Donut charts

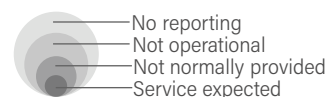
Each donut chart represents a type of health facility. The percentage of health facilities for which a service was fully or partially available is shown inside the donut while the total number of health facilities is shown at the bottom of the chart, below the health facility type name. Note, if a service was not available in any health facility, the values inside the chart will display the percentage of health facilities where the service is partially or not available.



## Maps

To highlight areas not reporting, respectively the impact of non-operational health facilities, maps depict all health facilities included in the HeRAMS assessment. Each circle corresponds to the cumulative number of health facilities in a province and may be divided in up to four smaller circles. The innermost circle denotes the number of health facilities evaluated with the color indicating the percentage of health facilities where the service is fully available. In cases where a service is not normally provided in all health facilities a gray circle reflects the proportion of health facilities where the service is not expected. The outer two circles represent non-reporting and not-operational health facilities, displayed distinct colors.

In the example shown on the right, the size of the outer circles corresponds to the total number of health facilities in a region. The smallest circle indicates the proportion of health facilities expected to provide the service followed by the proportion of health facilities evaluated but not expected to provide the service. The two lighter shades of gray indicate the proportion of non-operational and non-reporting health facilities.



### Map label:

Province name  
X / X%

For each circle, the corresponding province name is shown in the map label together with the total number of health facilities evaluated (excluding health facilities where the service is not expected) and the percentage of evaluated health facilities for which the service is fully available.

## Reasons of unavailability

If a service was not or only partially available causes of unavailability (i.e. barriers to service provision) were gathered.

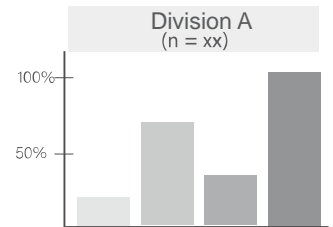
### Donut charts



Each donut chart indicates the percentage of health facilities having reported a given barrier. The total number of health facilities reporting at least one barrier is shown below the chart header.

### Bar chart

Bar charts depicting reasons follow the same logic as donut charts and exclude health facilities where the service is fully available. The number of health facilities reporting at least one reason is displayed below the region's name.

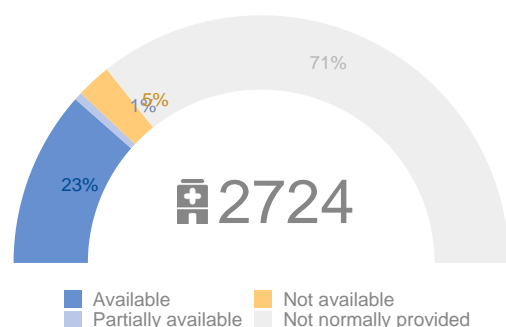


**Important:** The denominator for reasons charts excludes health facilities where the service was fully available. It should further be noted that health facilities could report up to three barriers for each service. Thus, the sum of all reasons may exceed 100%.

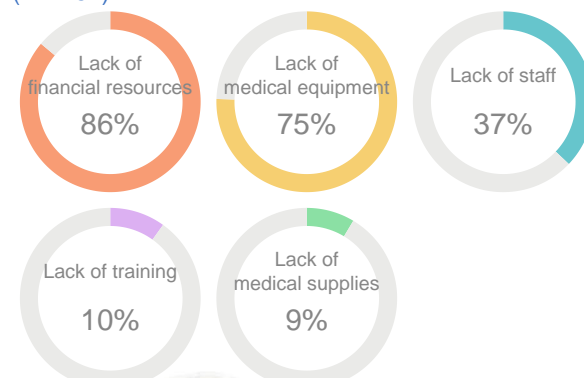


# REQUEST FOR AMBULANCE SERVICES BY THE PATIENT

## Service availability

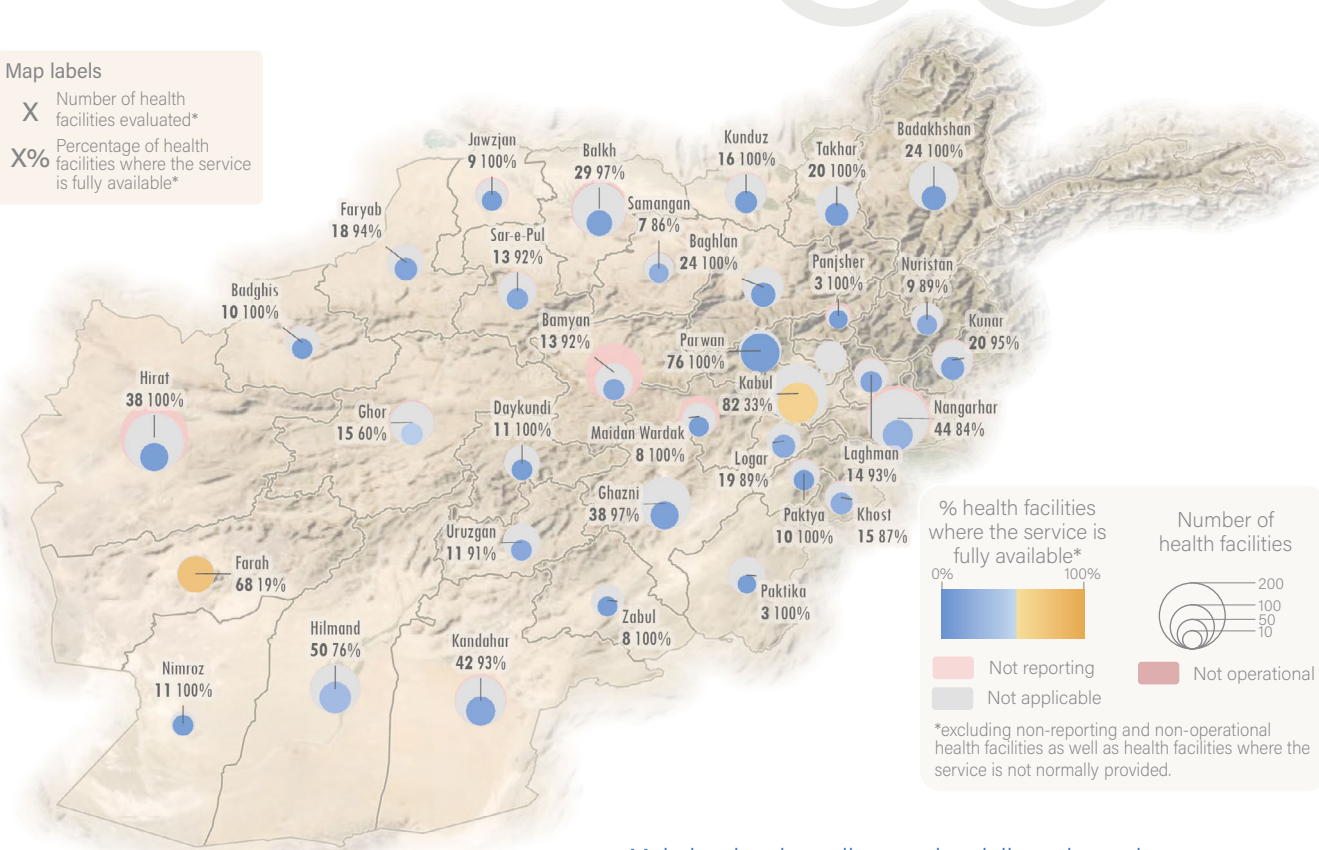


## Main barriers impeding service delivery (n = 151)

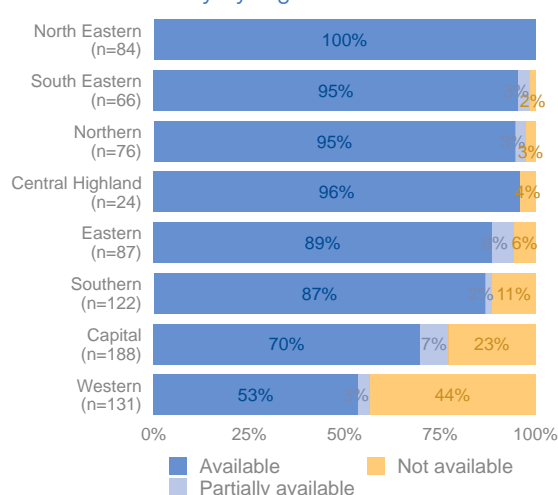


### Map labels

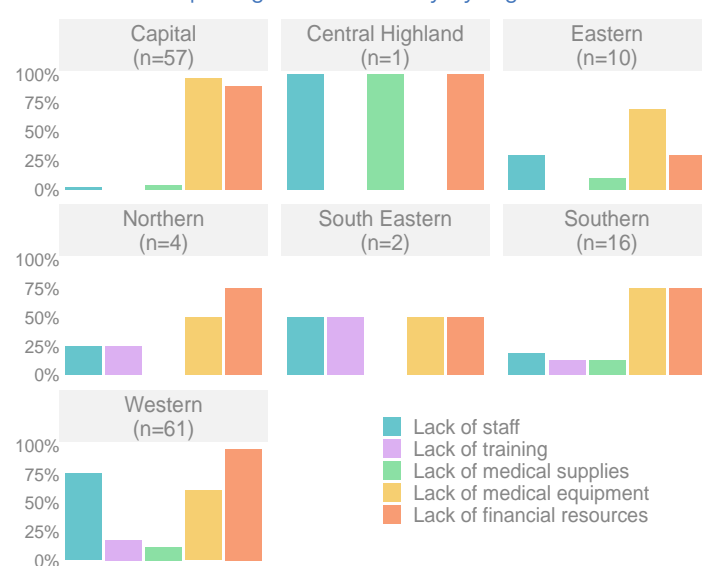
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Service availability by region†

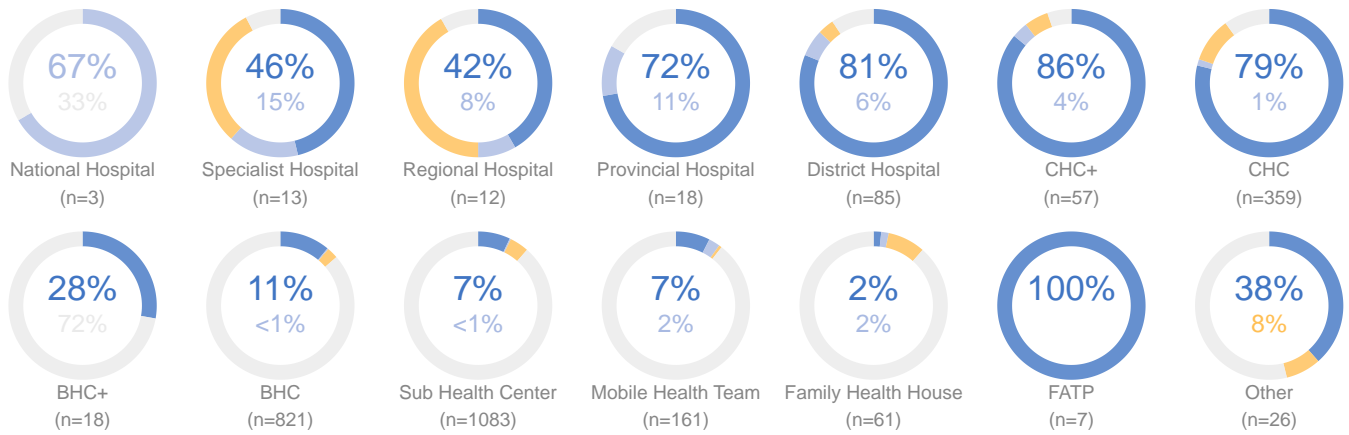


## Main barriers impeding service delivery by region

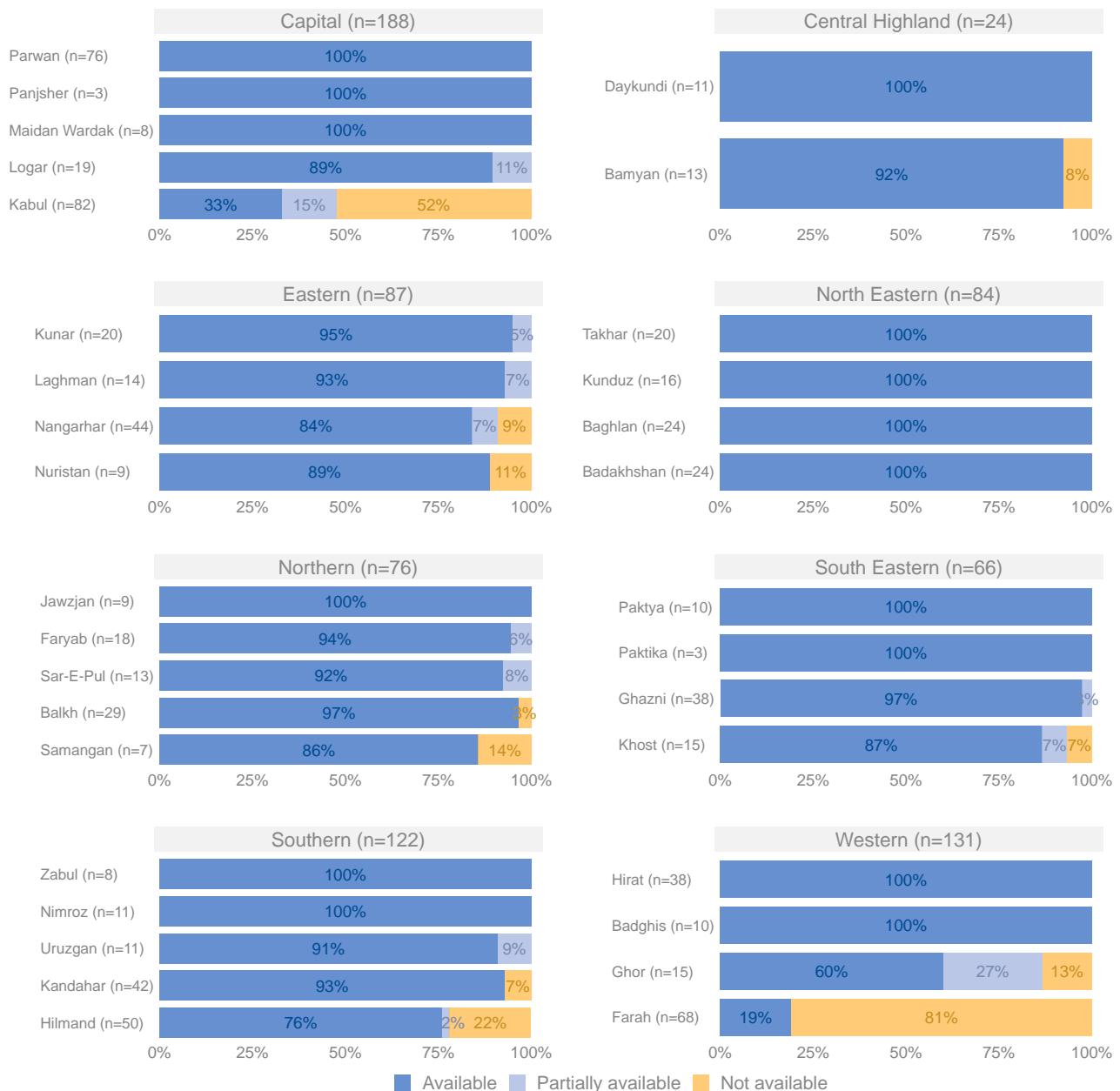




### Service availability by health facility type



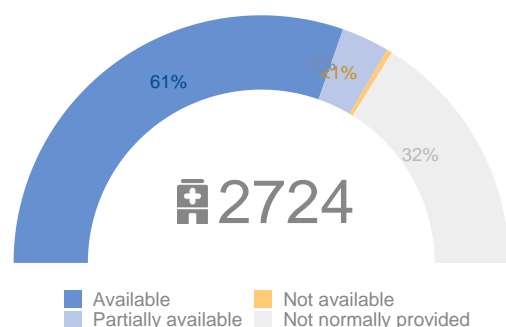
### Service availability by province†



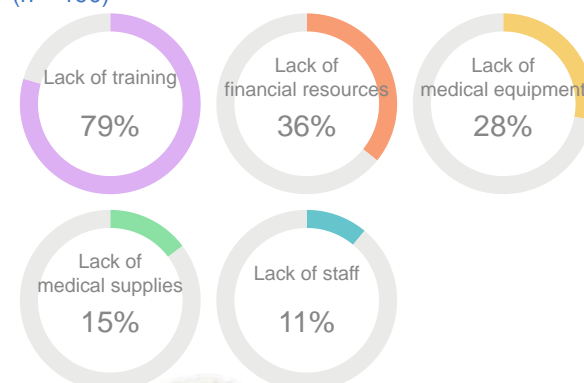
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# RECOGNITION OF DANGER SIGNS

## Service availability

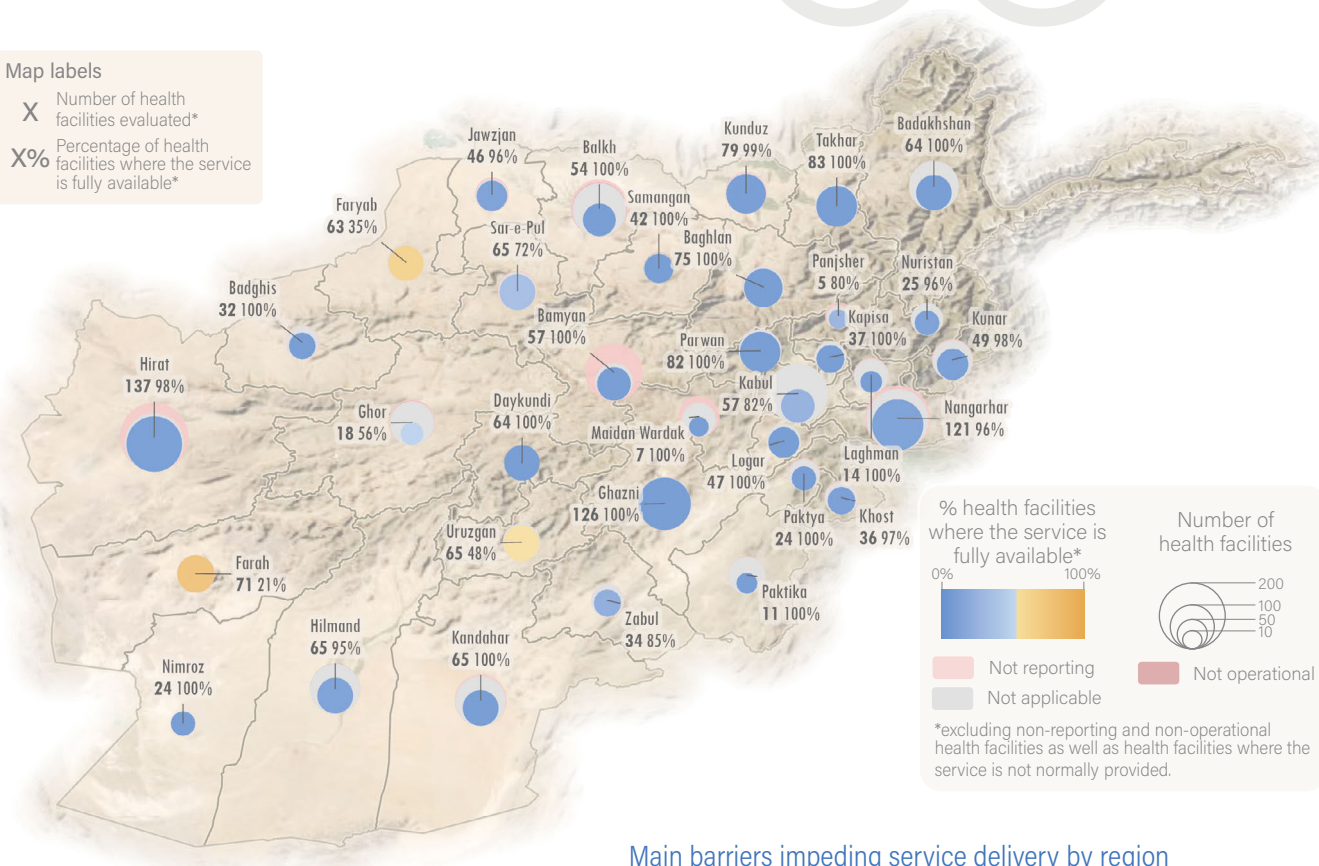


## Main barriers impeding service delivery (n = 190)

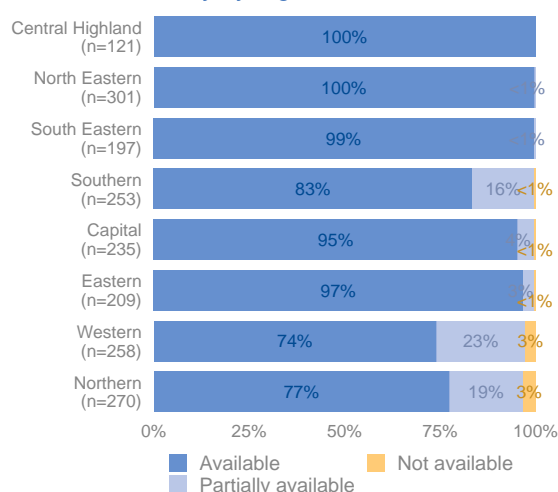


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



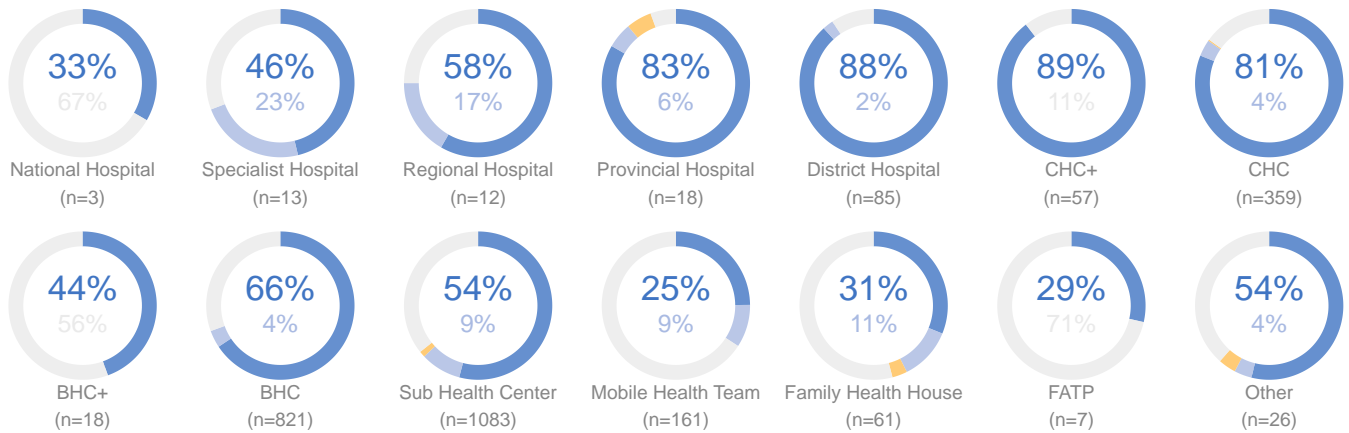
## Service availability by region\*



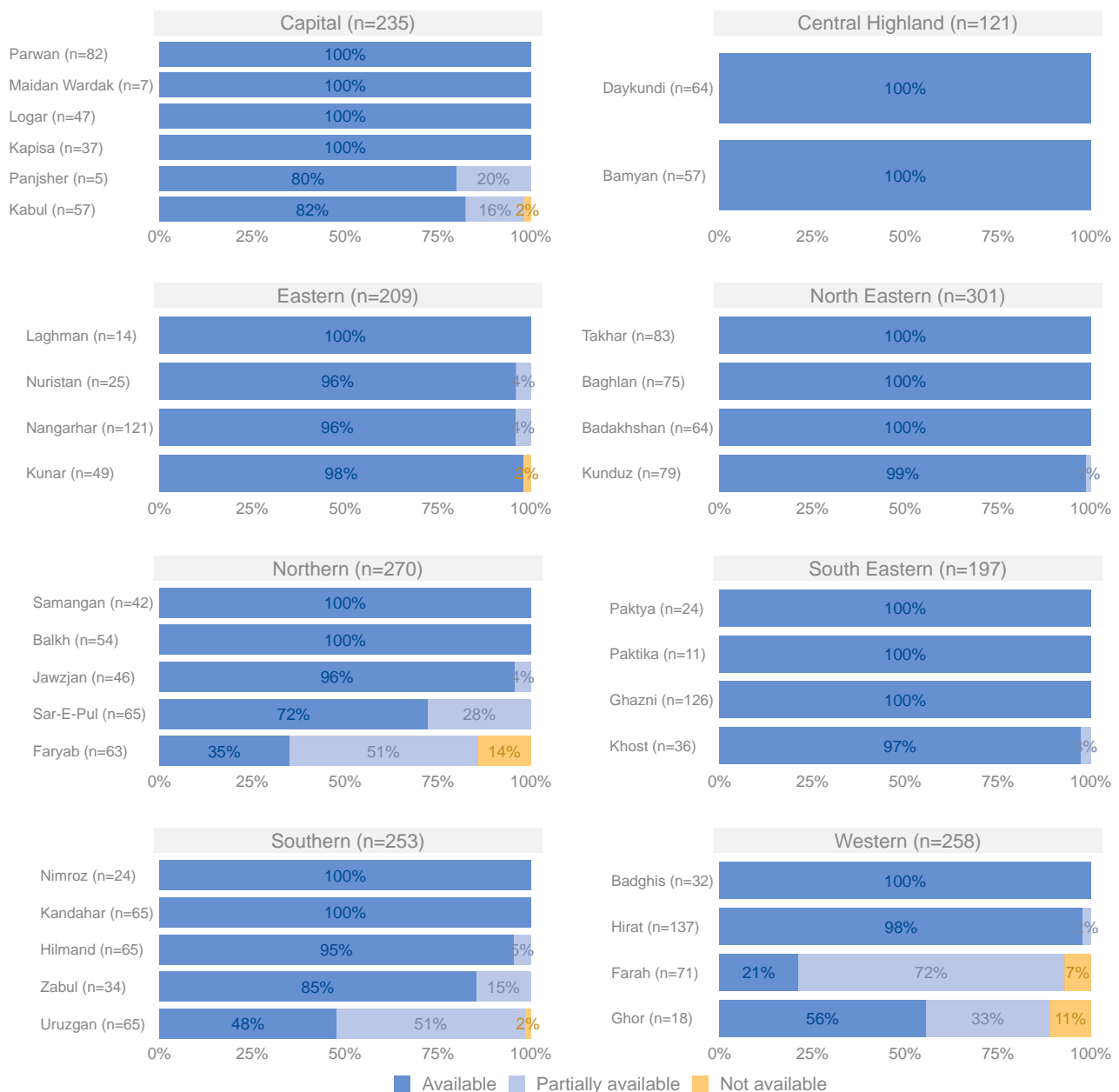
## Main barriers impeding service delivery by region



## Service availability by health facility type



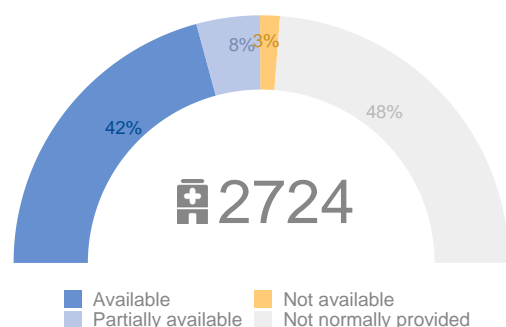
## Service availability by province†



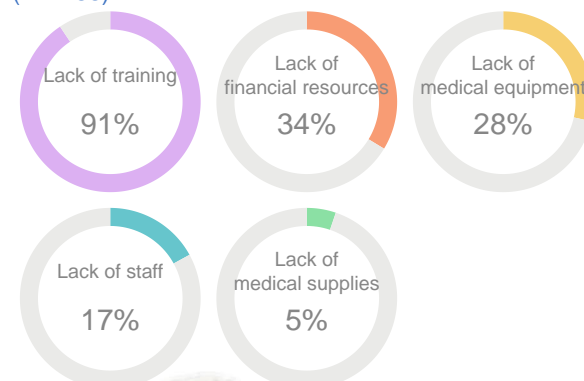
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# ACUITY-BASED FORMAL TRIAGE

## Service availability

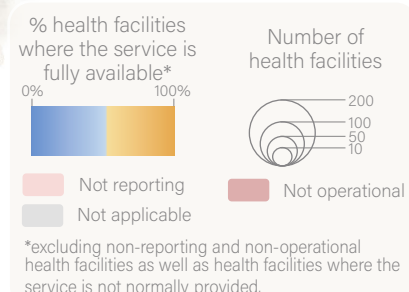
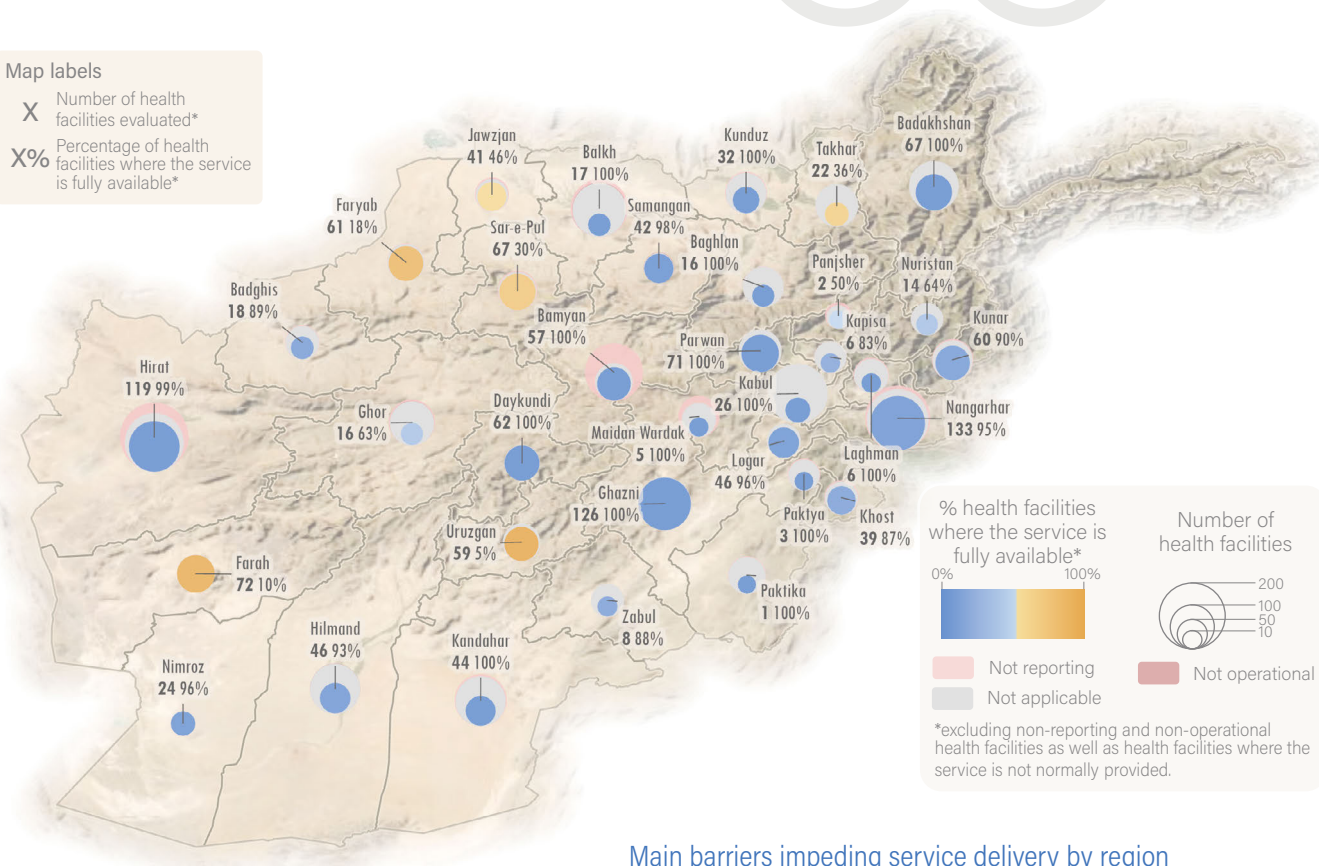


## Main barriers impeding service delivery (n = 288)

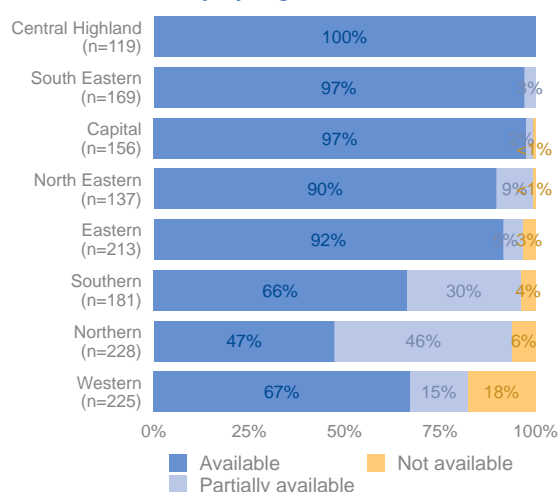


### Map labels

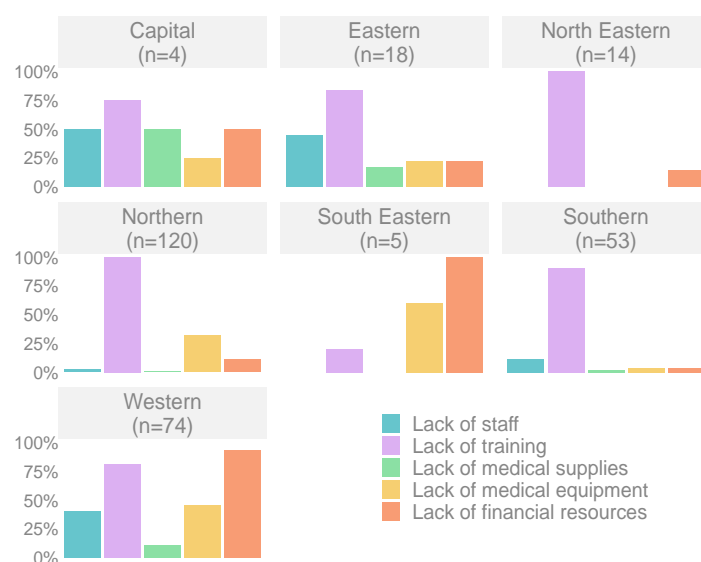
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



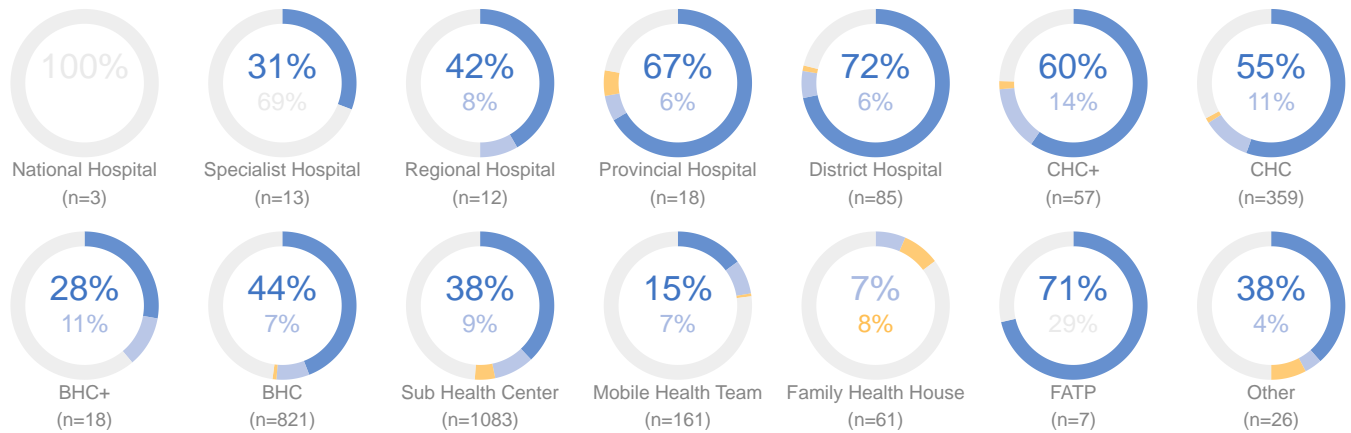
## Service availability by region\*



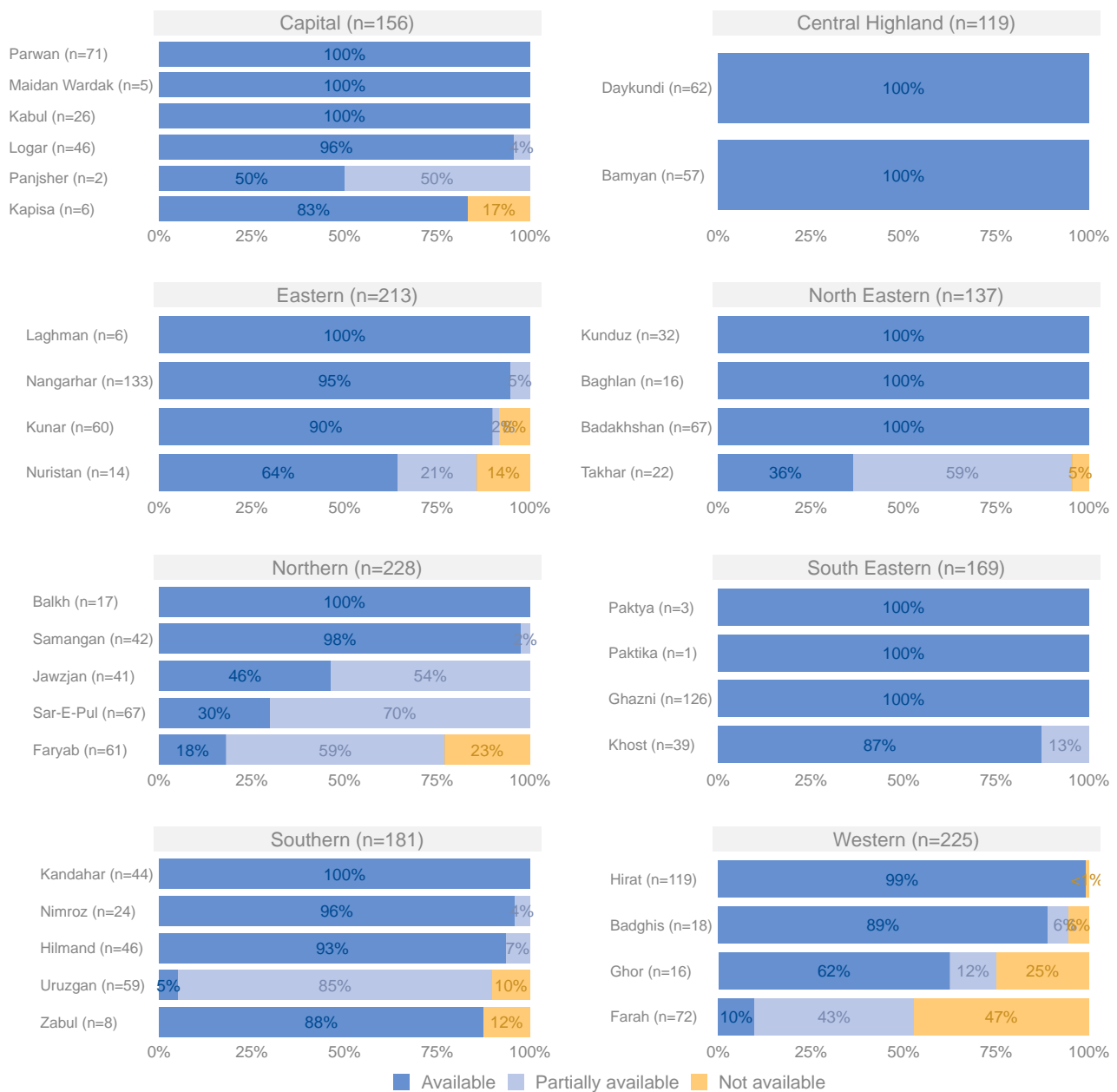
## Main barriers impeding service delivery by region



### Service availability by health facility type



### Service availability by province†

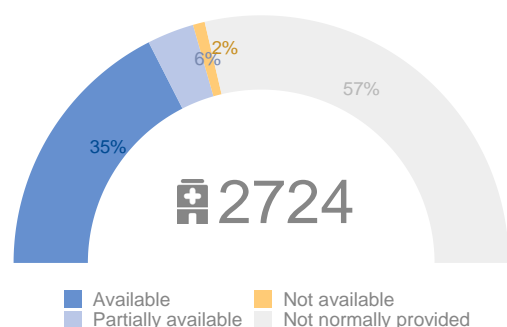


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

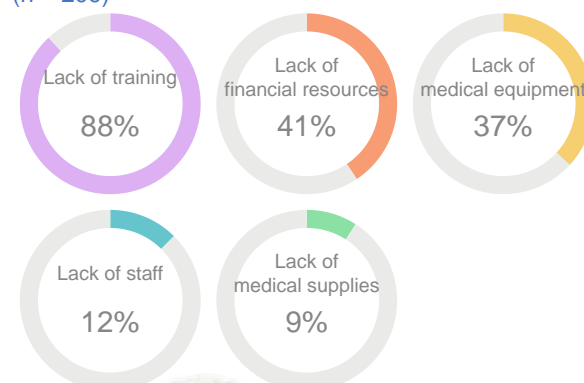


# WHO BASIC EMERGENCY CARE BY PREHOSPITAL PROVIDER

## Service availability

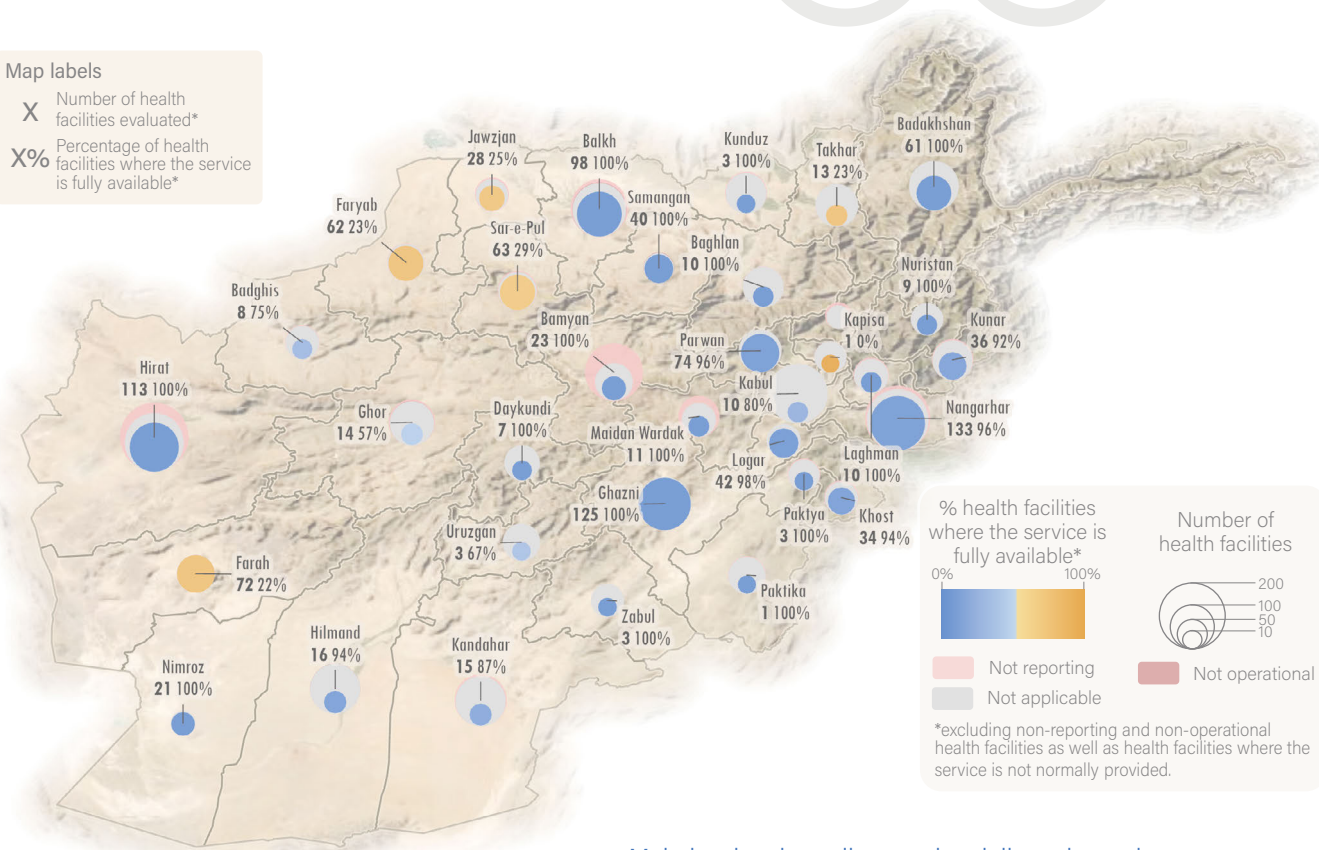


## Main barriers impeding service delivery (n = 209)



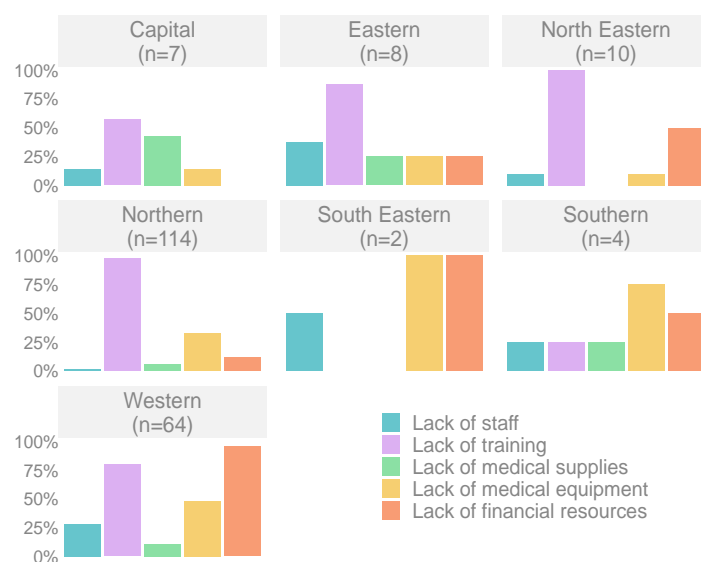
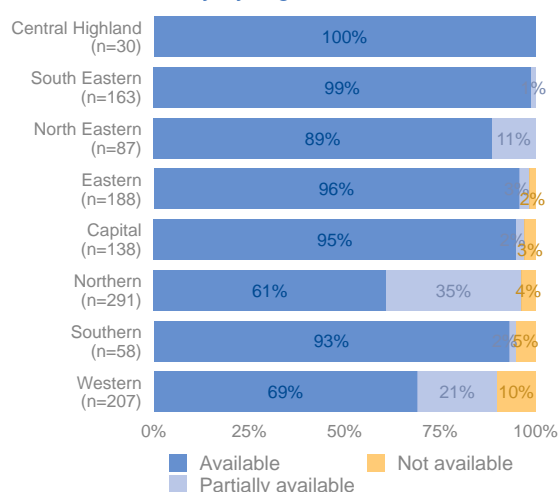
### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



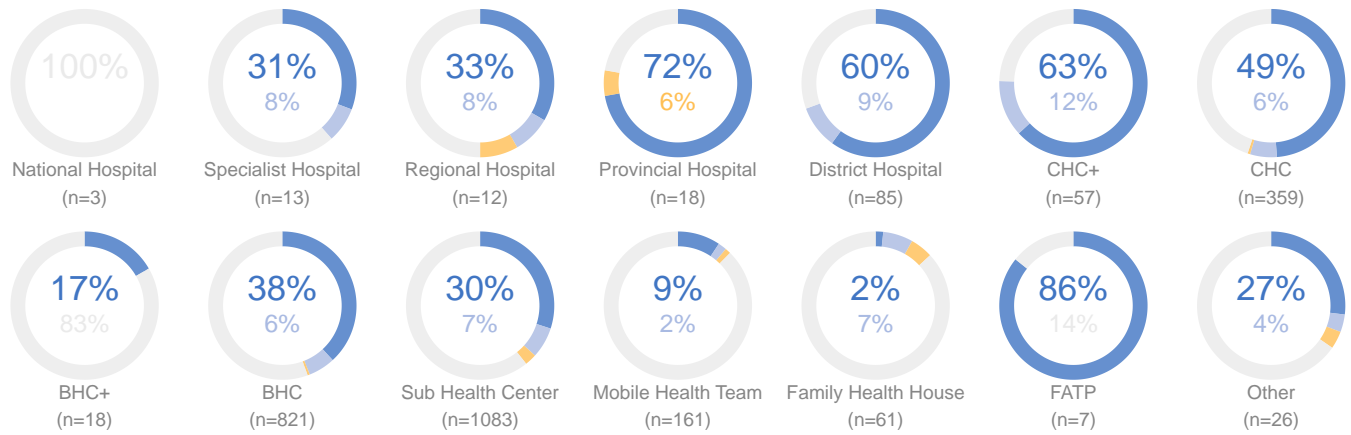
## Main barriers impeding service delivery by region

### Service availability by region\*

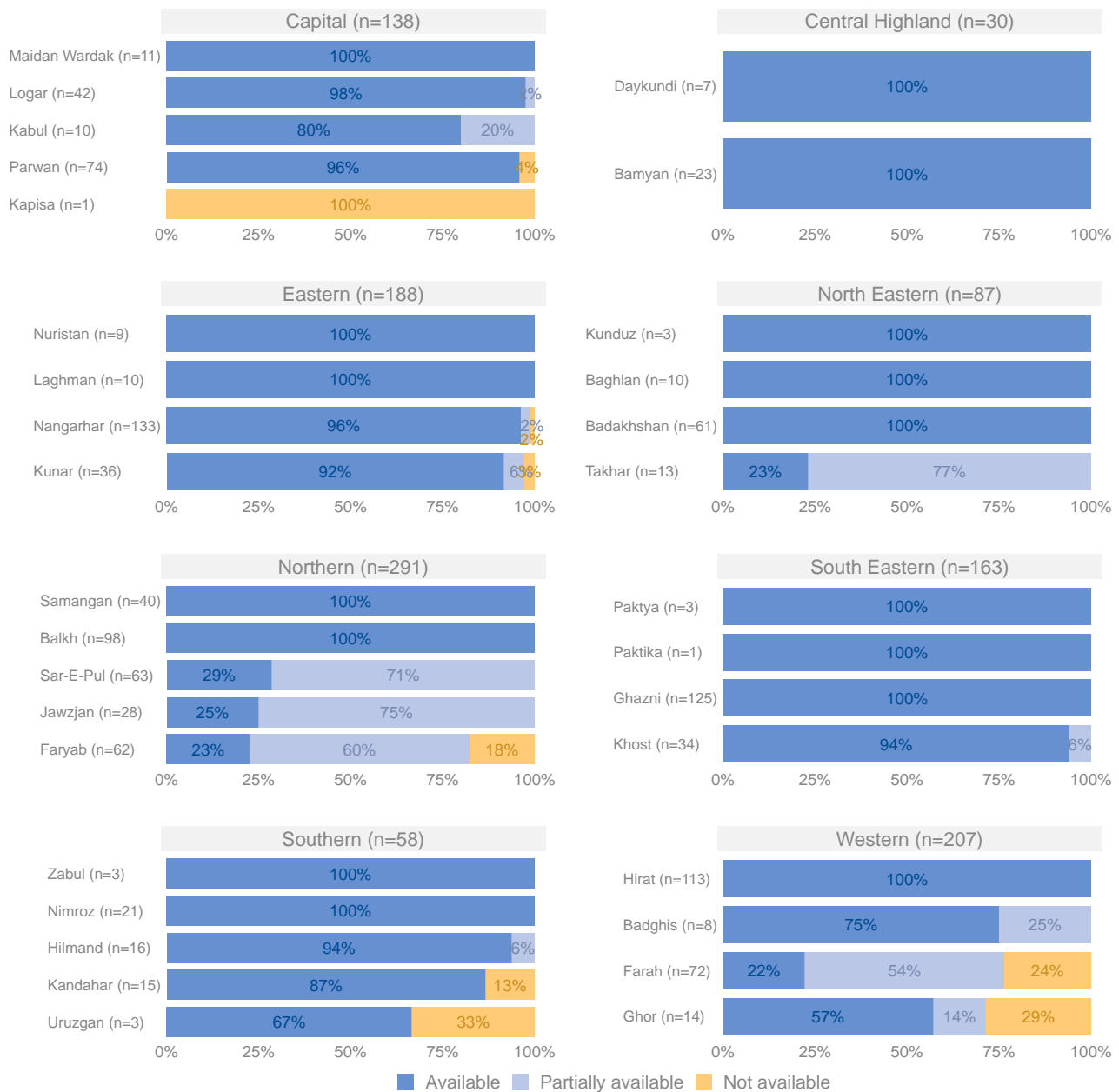




### Service availability by health facility type



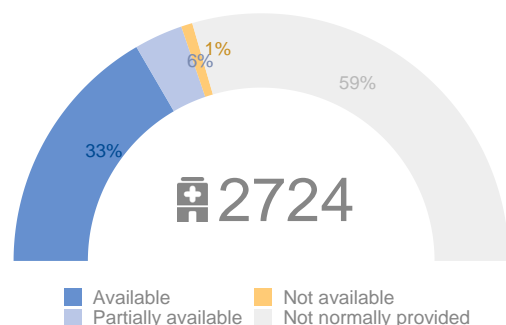
### Service availability by province†



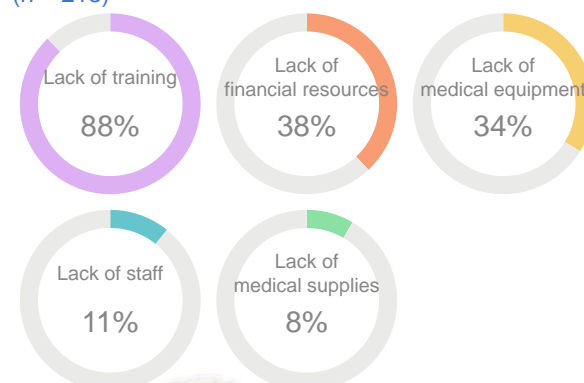
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# WHO BASIC EMERGENCY CARE

## Service availability

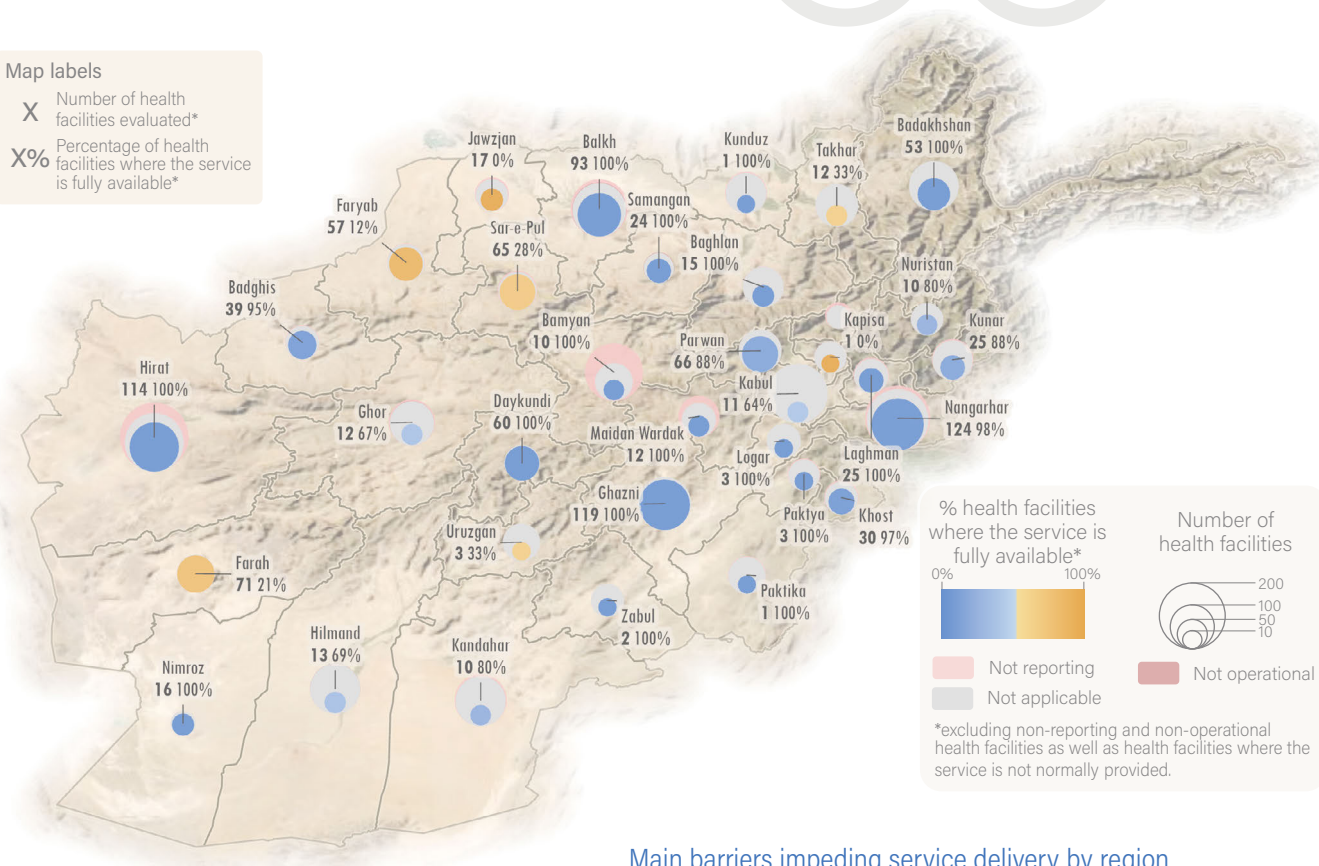


## Main barriers impeding service delivery (n = 213)

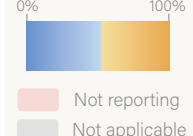


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



% health facilities where the service is fully available\*

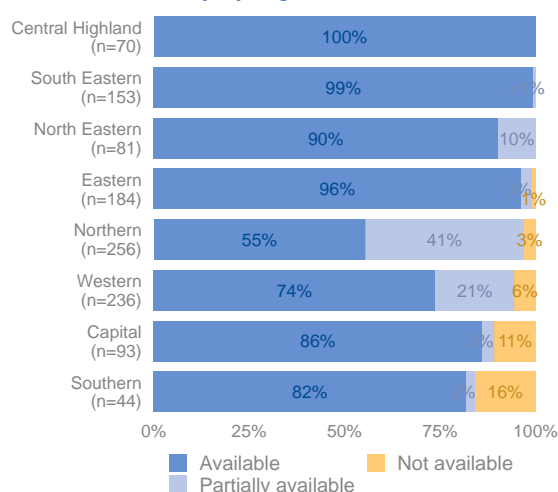


Number of health facilities



\*excluding non-reporting and non-operational health facilities as well as health facilities where the service is not normally provided.

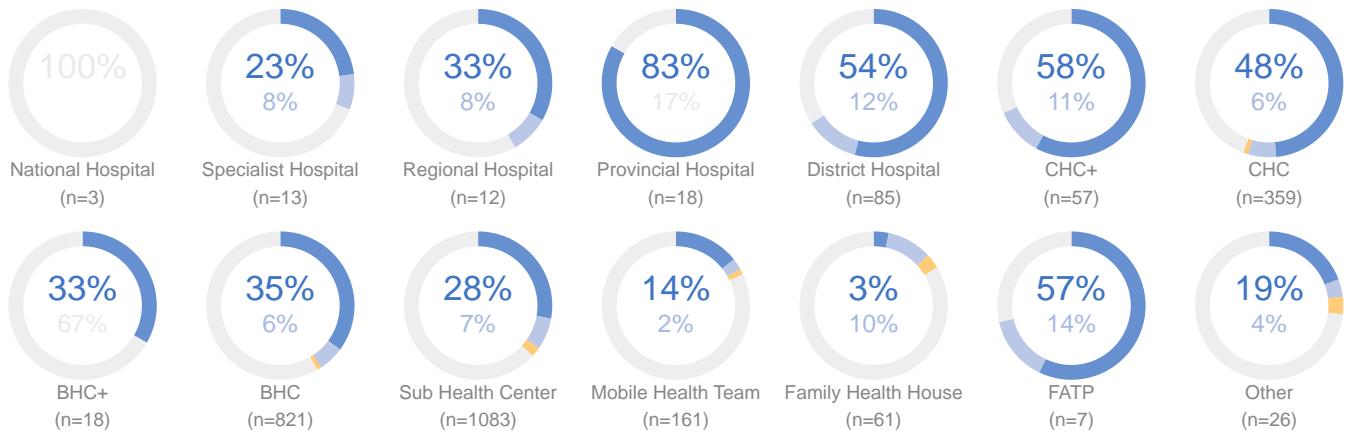
## Service availability by region\*



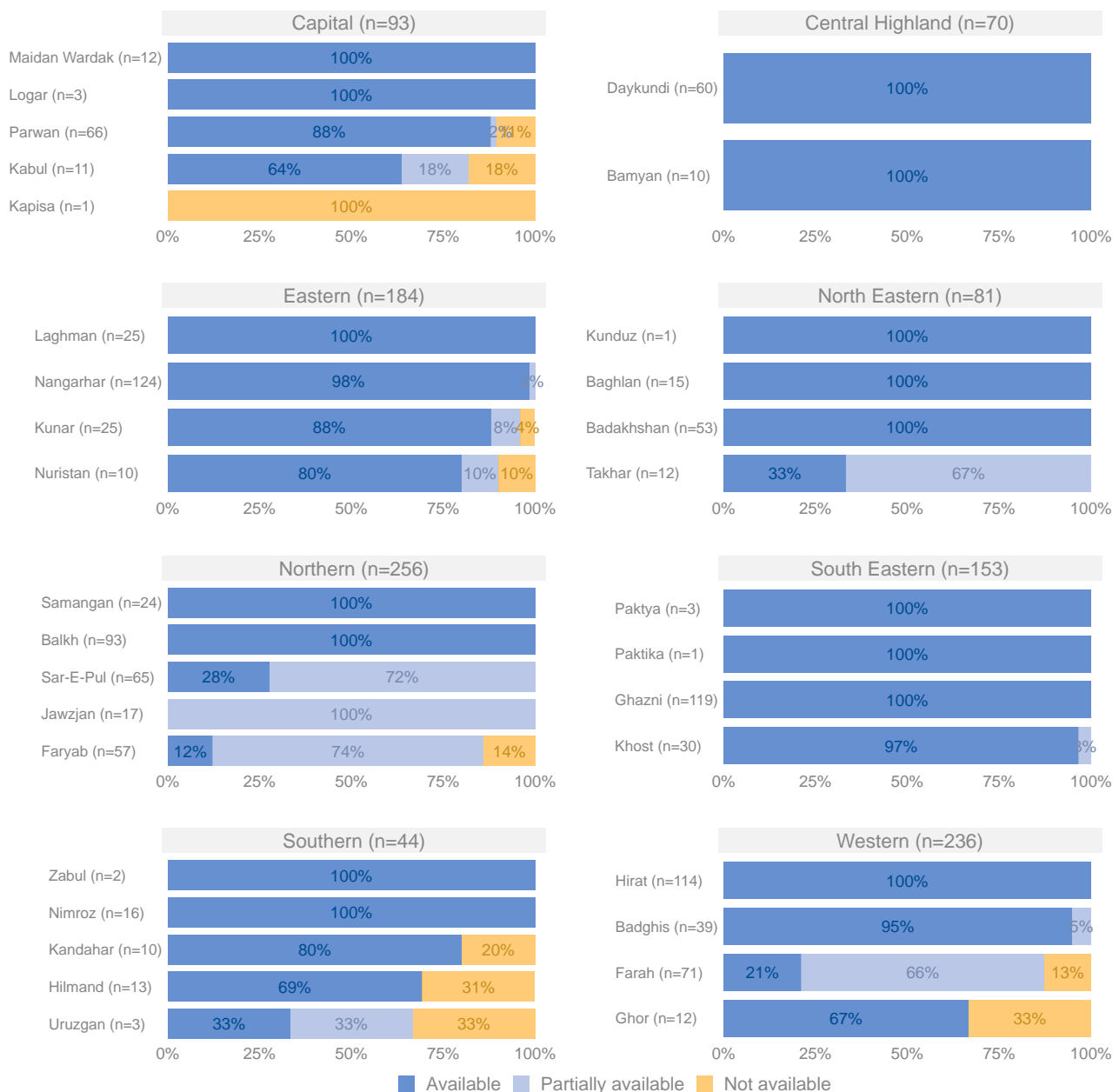
## Main barriers impeding service delivery by region



### Service availability by health facility type



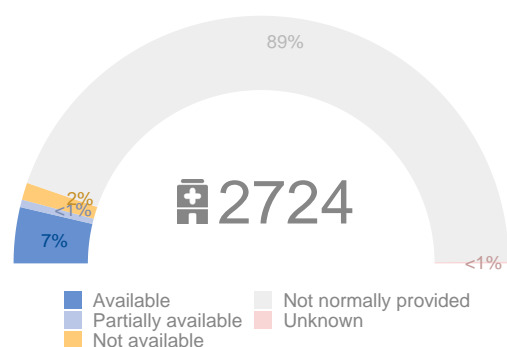
### Service availability by province†



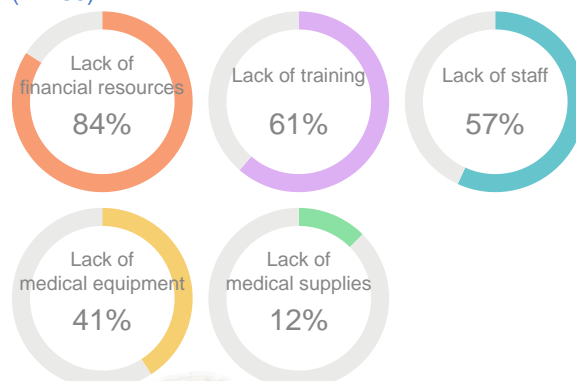
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# ADVANCED SYNDROME-BASED MANAGEMENT

## Service availability

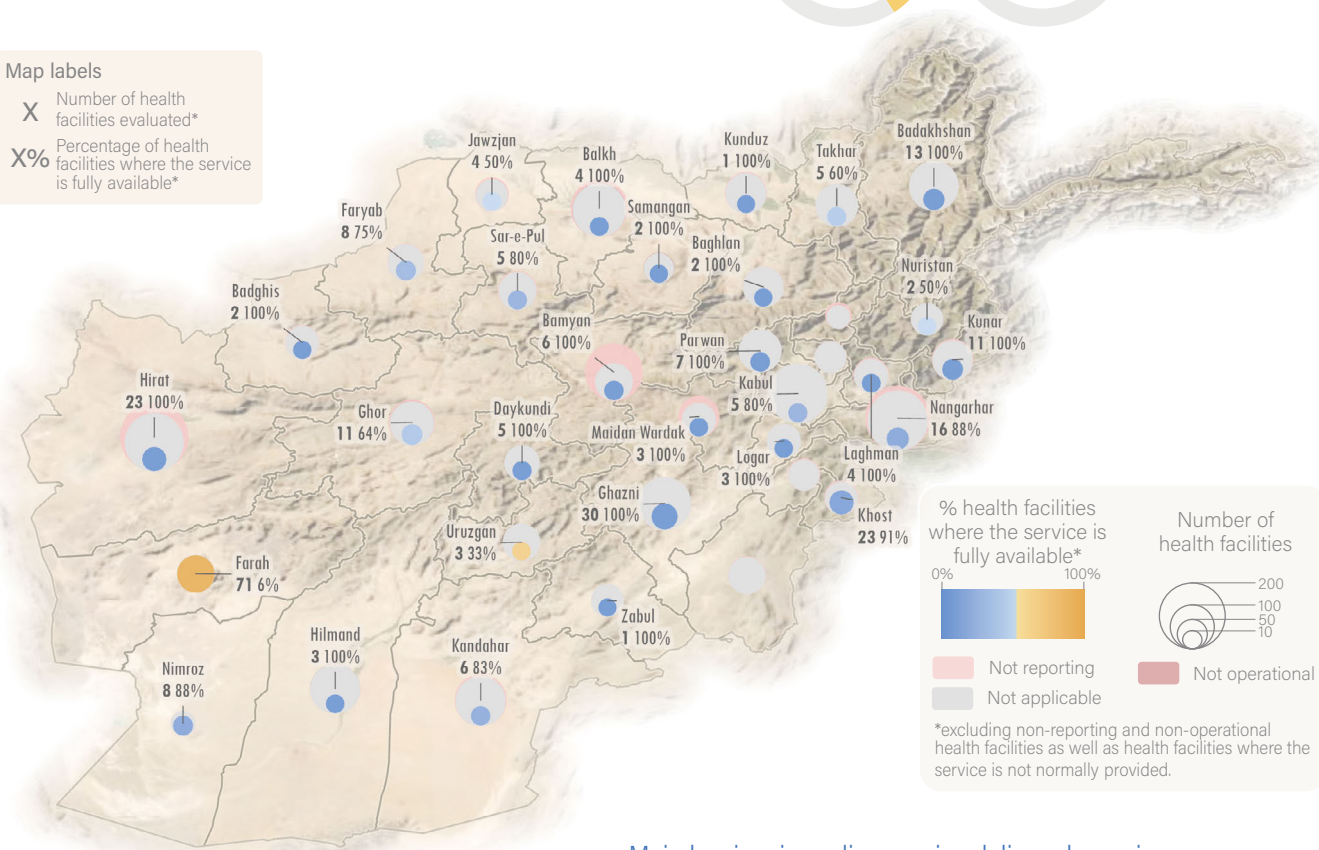


## Main barriers impeding service delivery (n = 88)

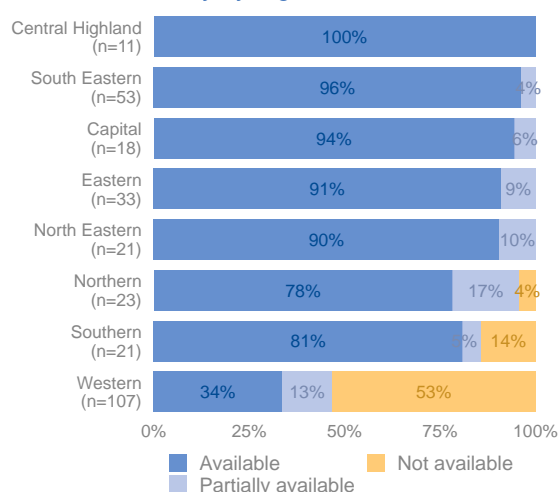


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



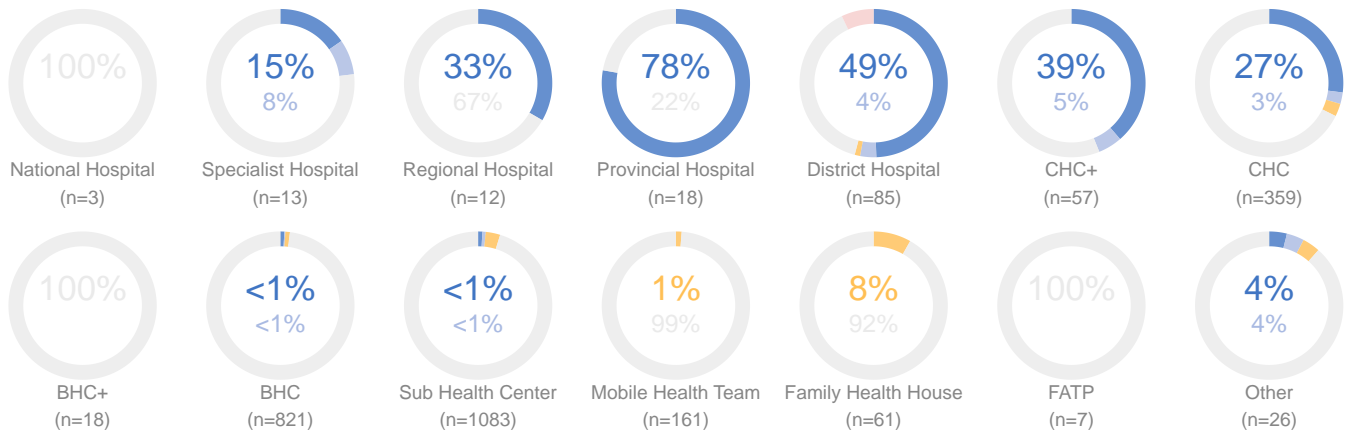
## Service availability by region\*



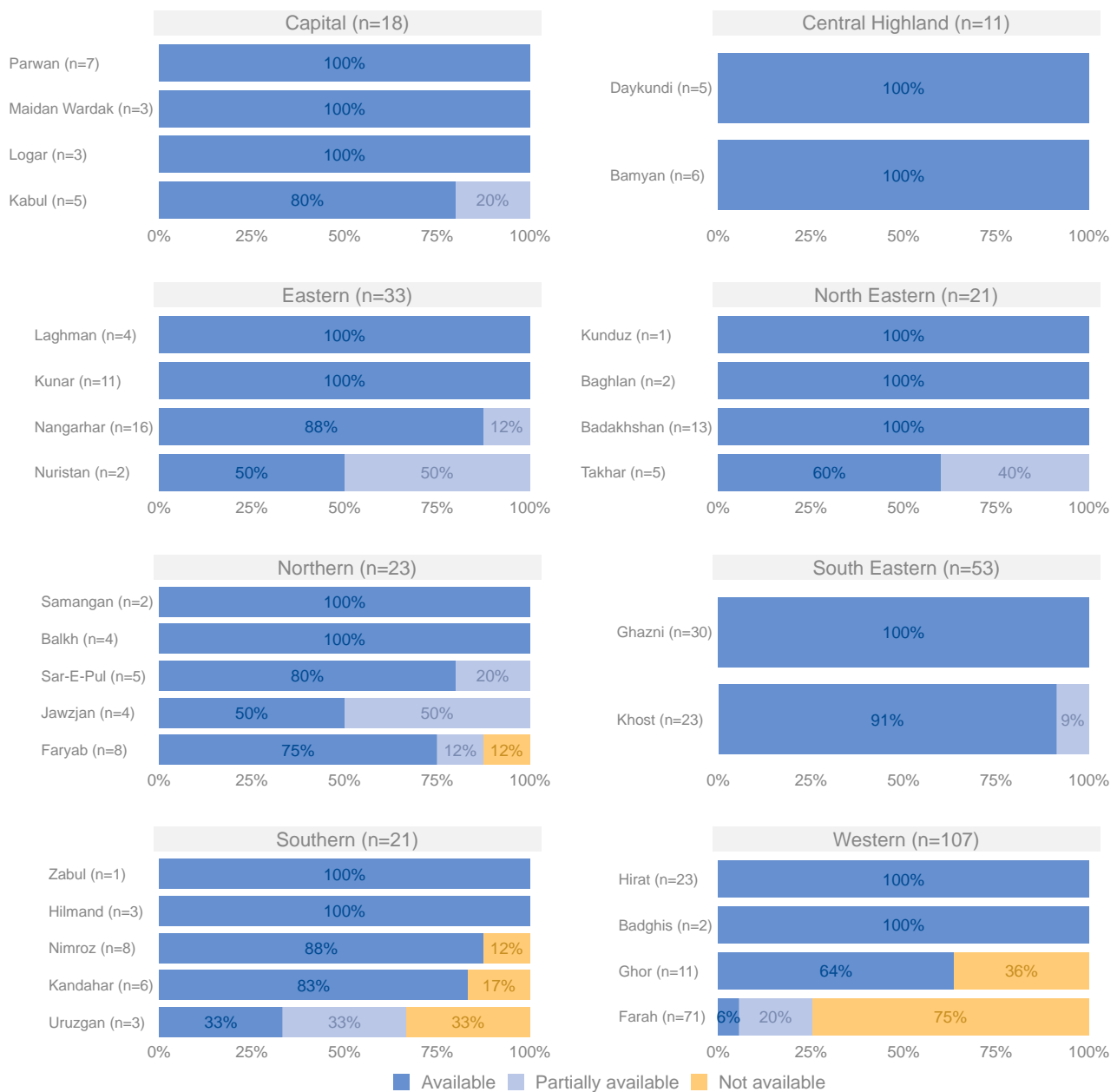
## Main barriers impeding service delivery by region



## Service availability by health facility type



## Service availability by province†

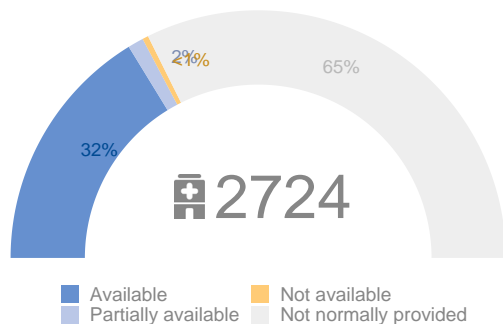


† Chart excludes health facilities where the service is not normally provided or availability is unknown.



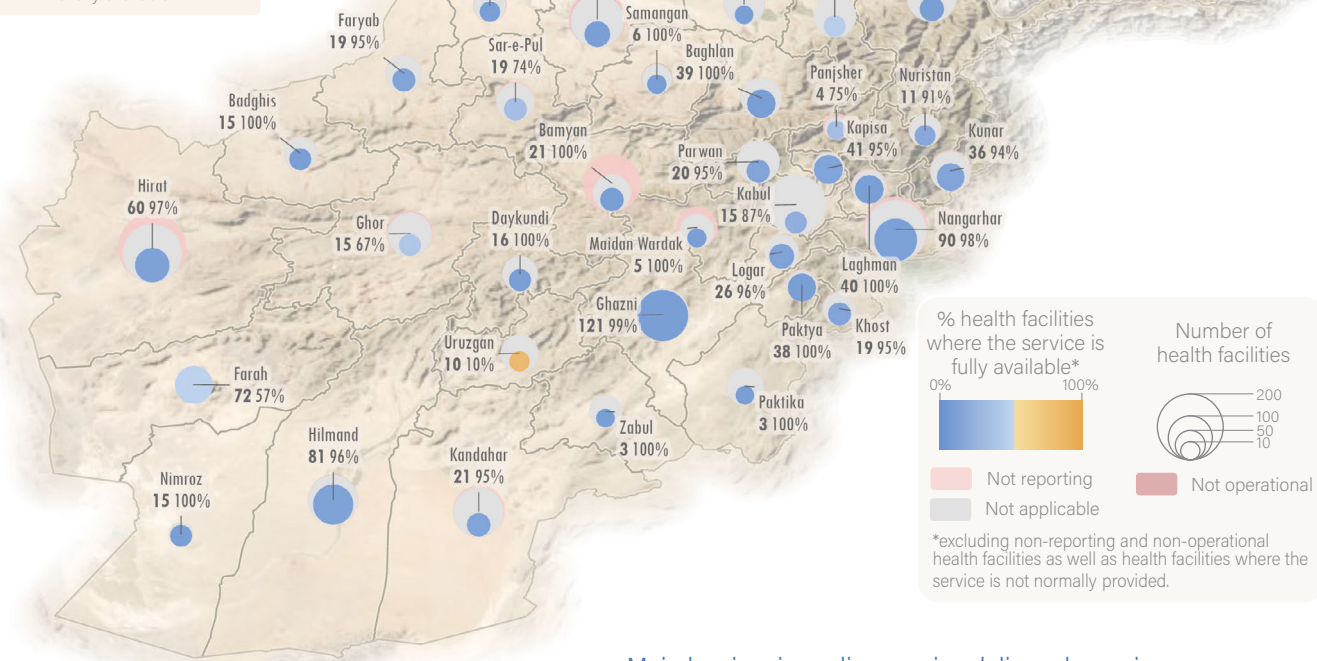
# MONITORED REFERRAL

## Service availability

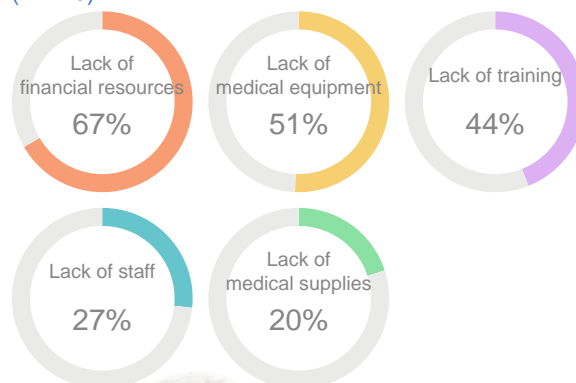


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*

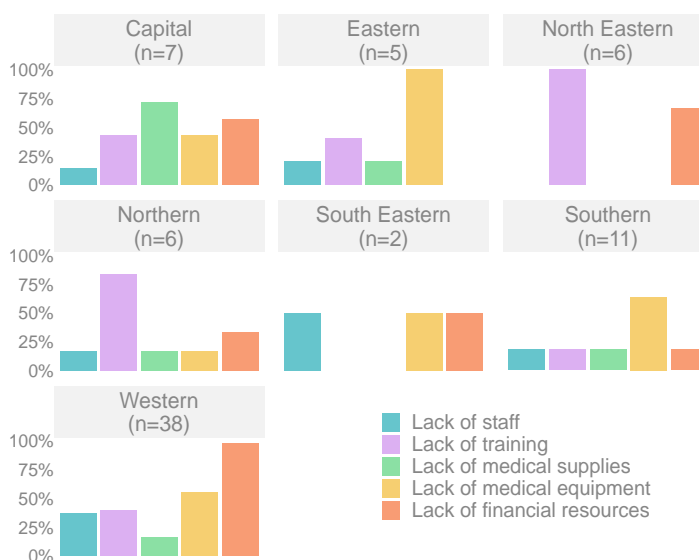
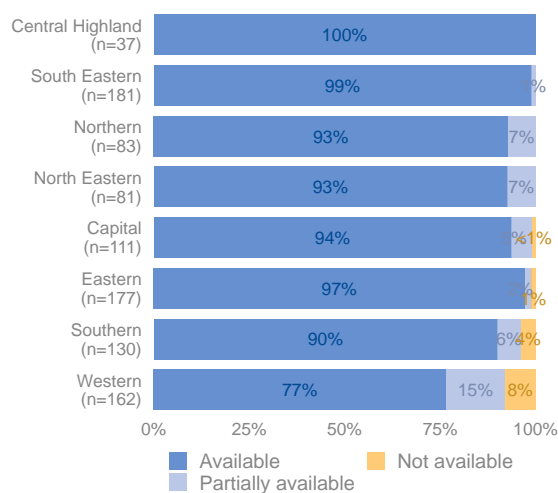


## Main barriers impeding service delivery (n = 75)

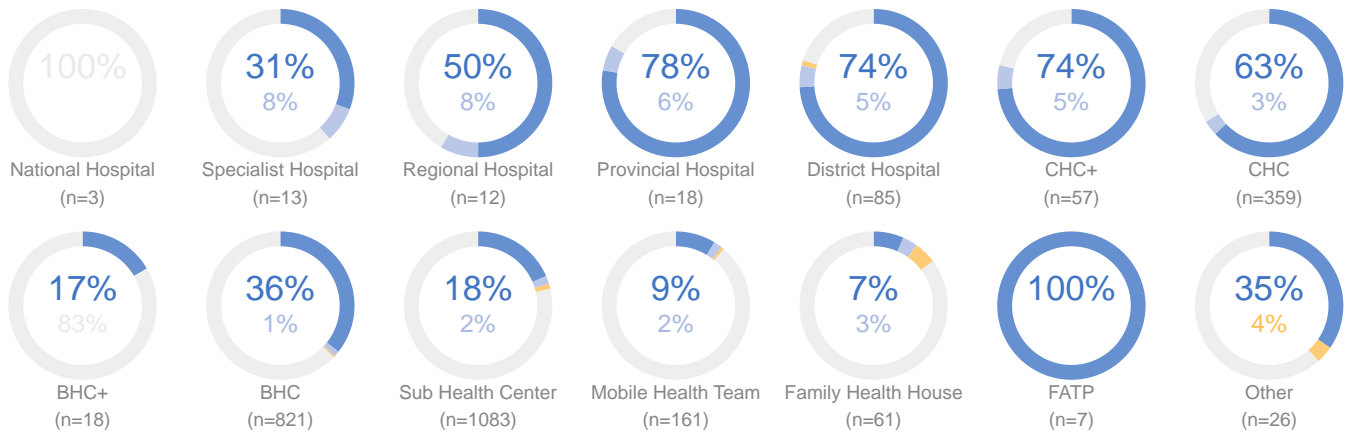


## Main barriers impeding service delivery by region

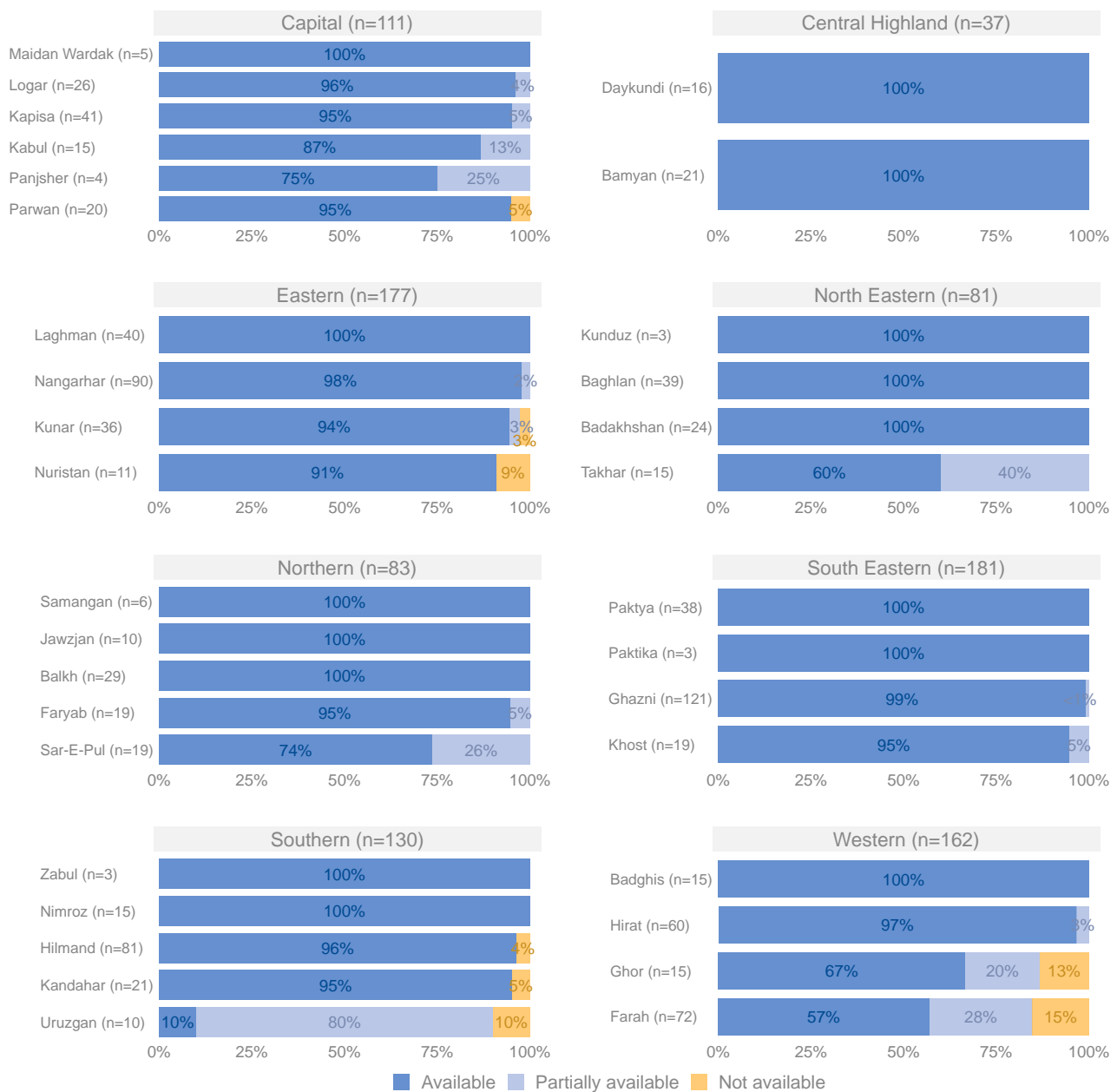
### Service availability by region\*



### Service availability by health facility type



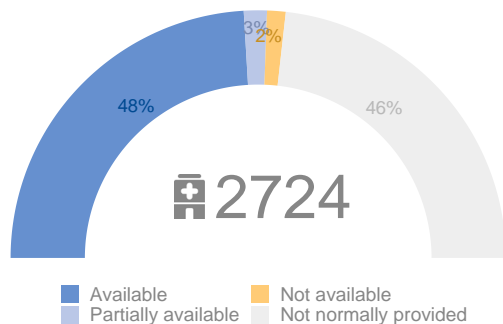
### Service availability by province†



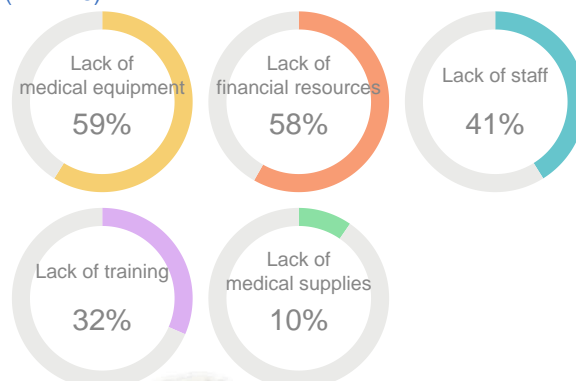
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# REFERRAL CAPACITY

## Service availability

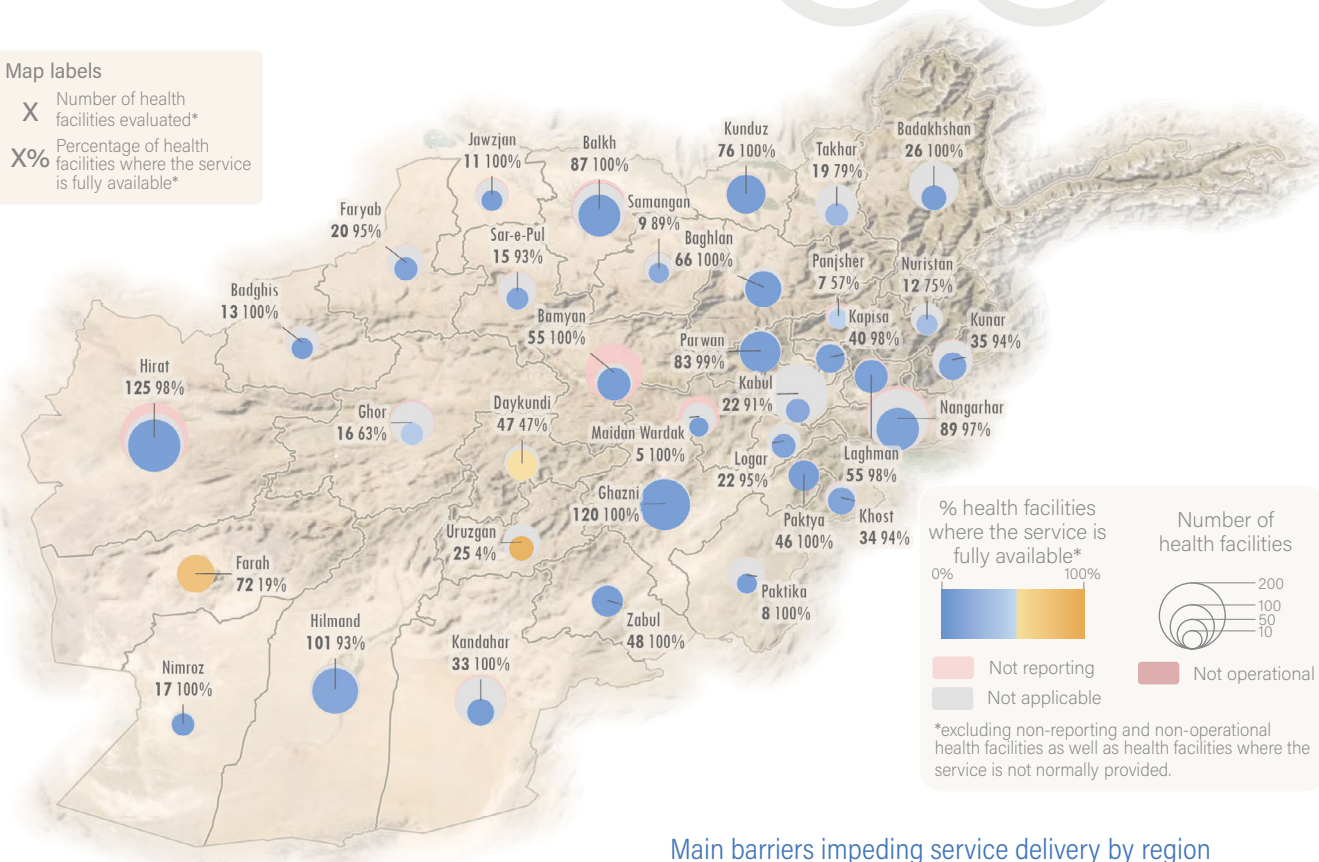


## Main barriers impeding service delivery (n = 146)

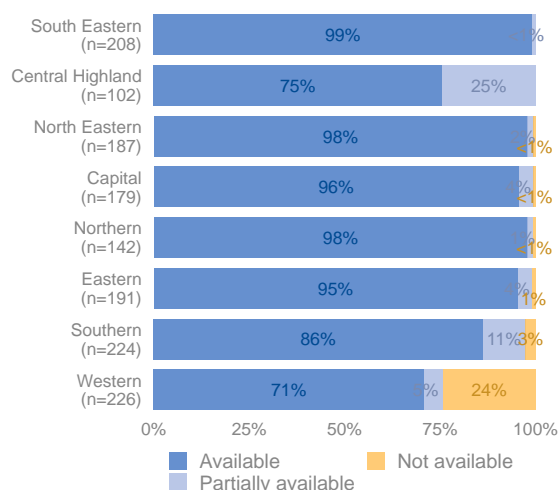


### Map labels

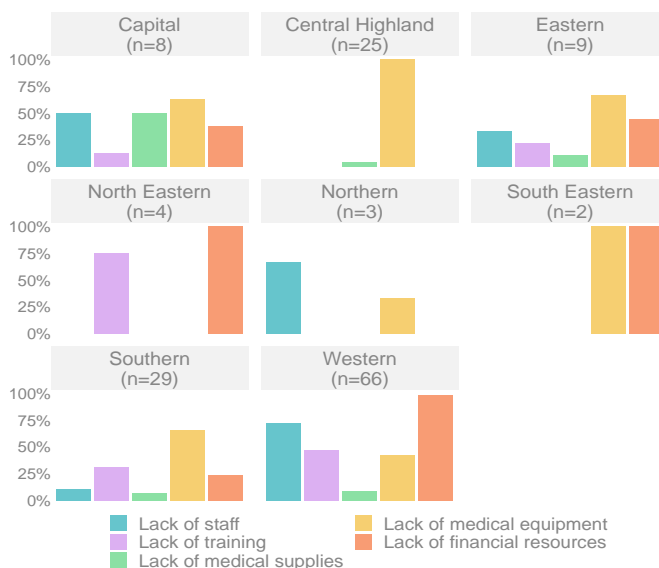
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Service availability by region†

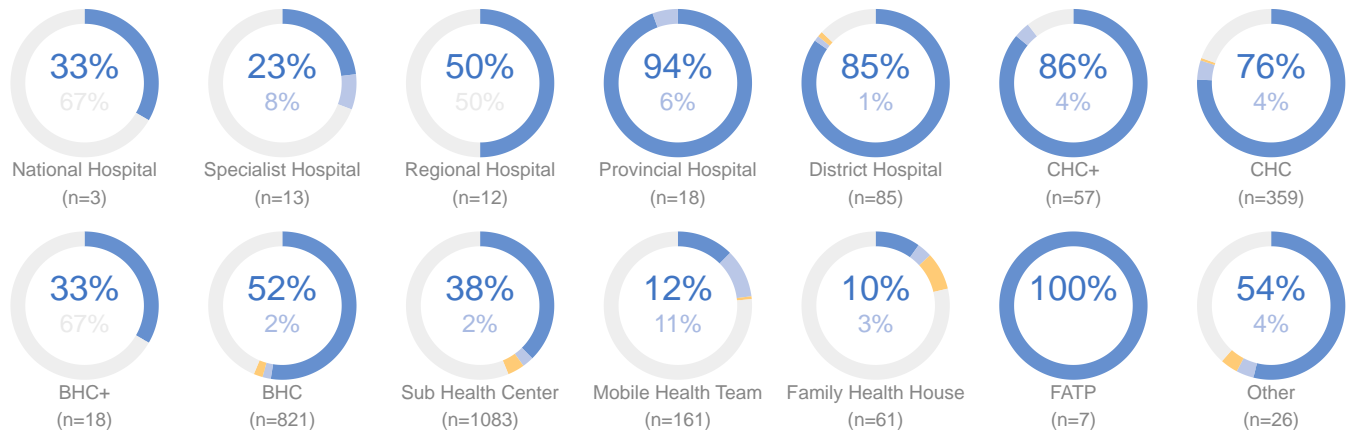


## Main barriers impeding service delivery by region

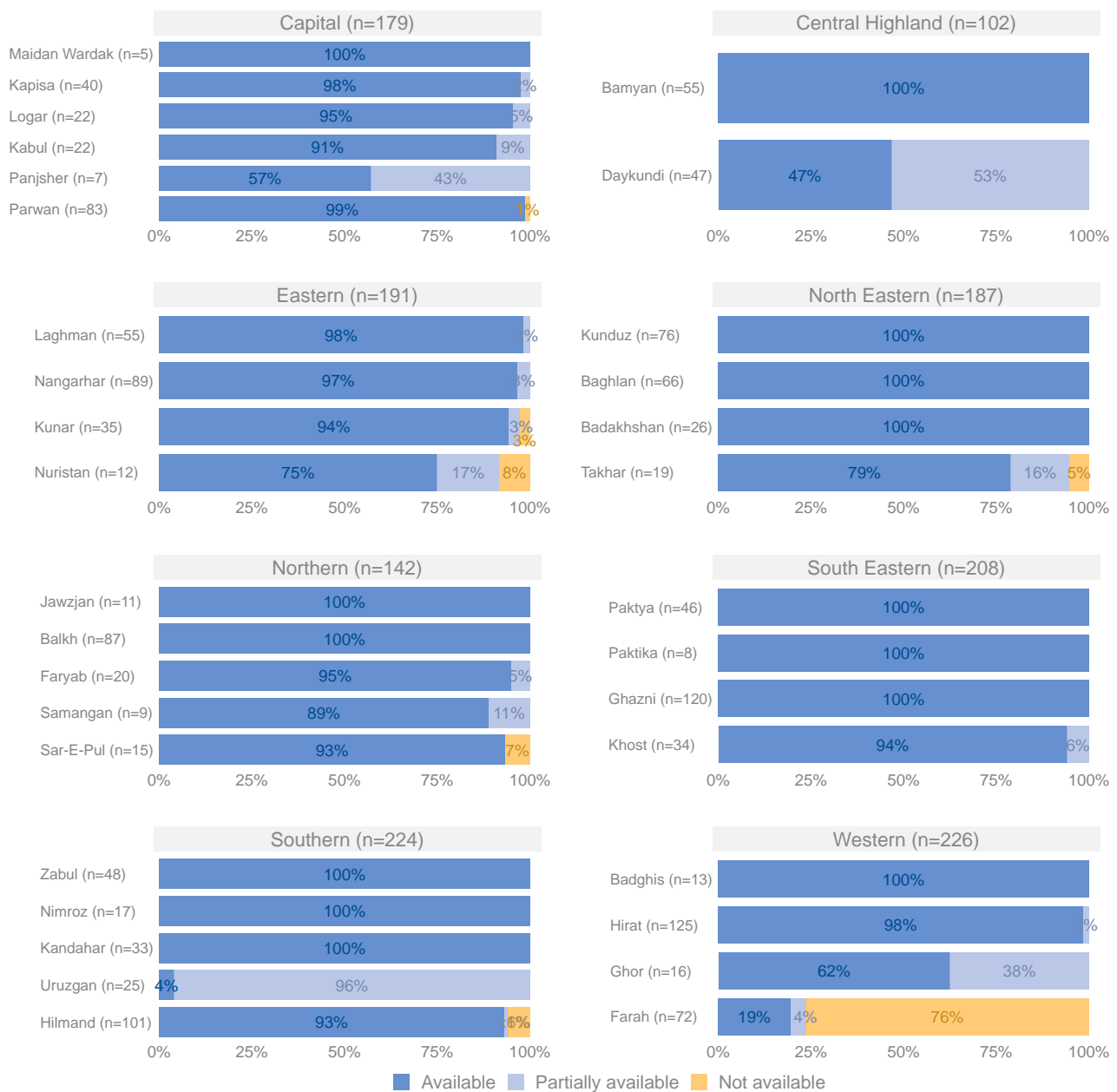




### Service availability by health facility type



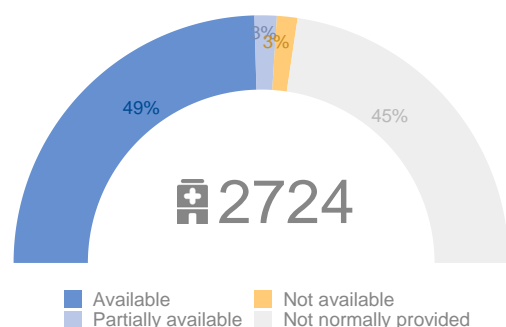
### Service availability by province†



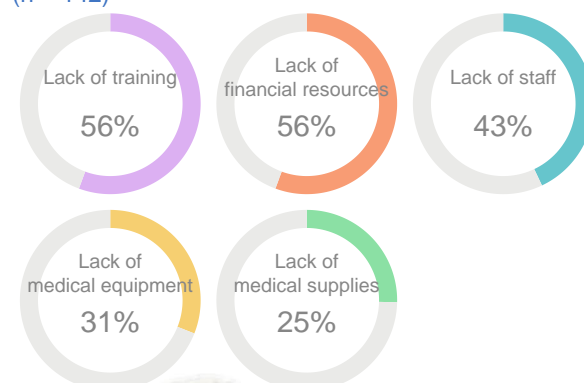
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# ACCEPTANCE OF REFERRALS

## Service availability

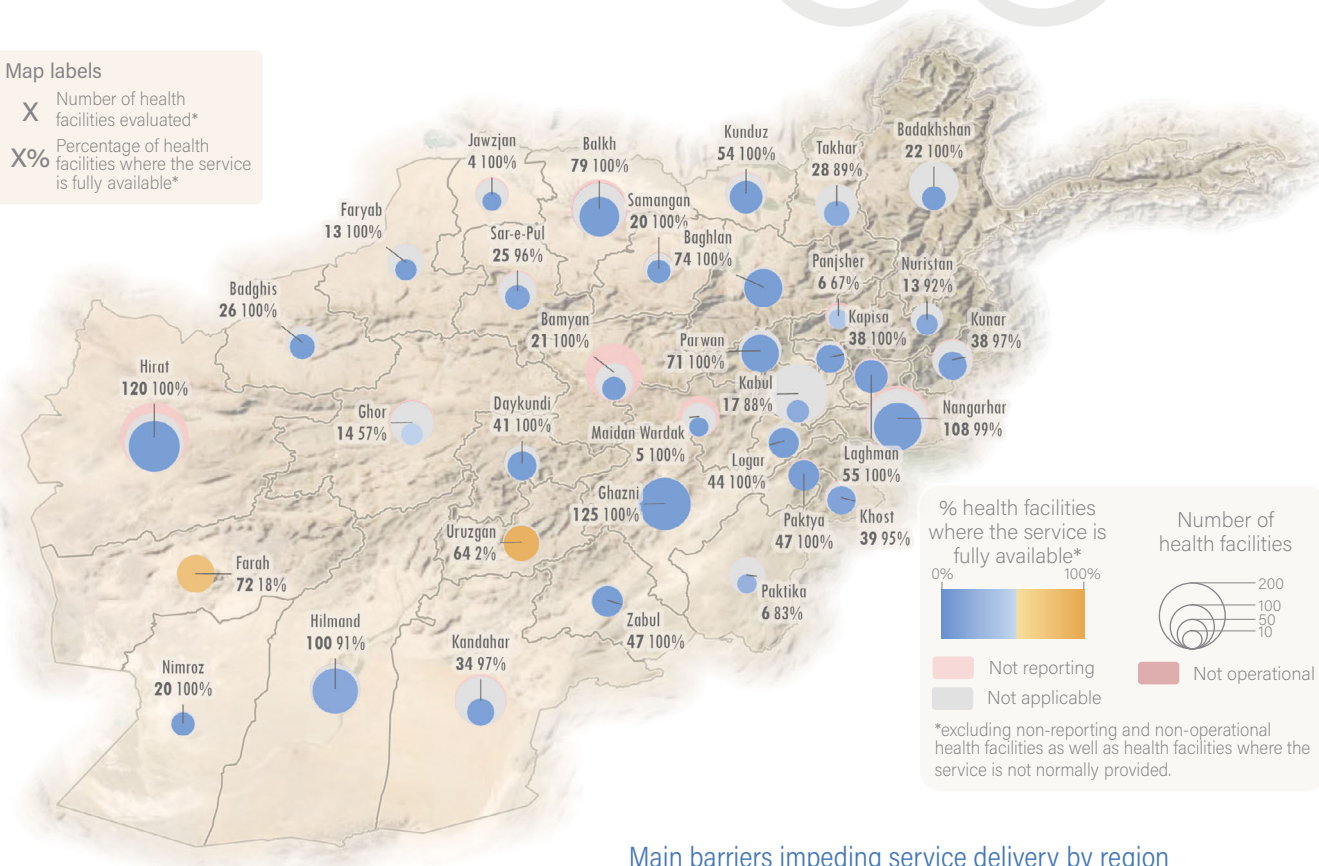


## Main barriers impeding service delivery (n = 142)

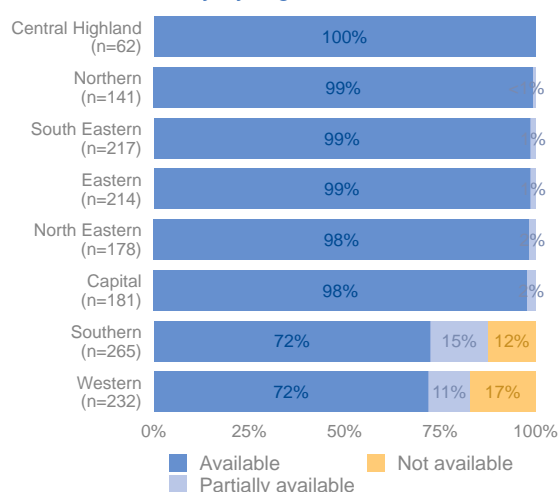


### Map labels

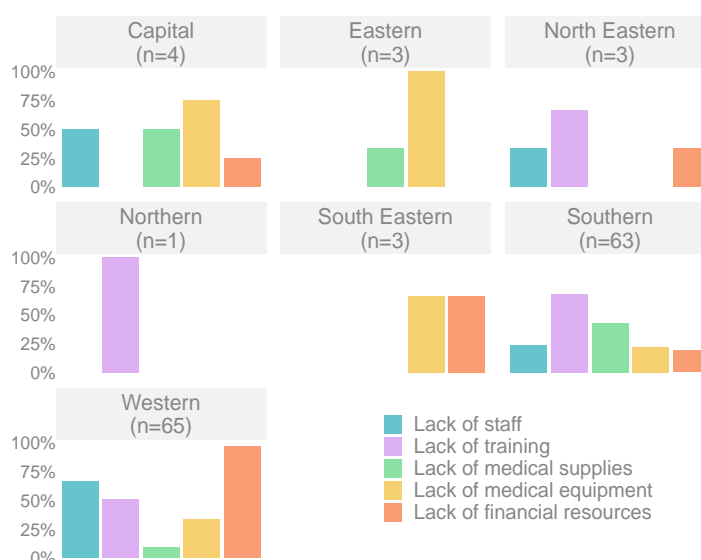
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



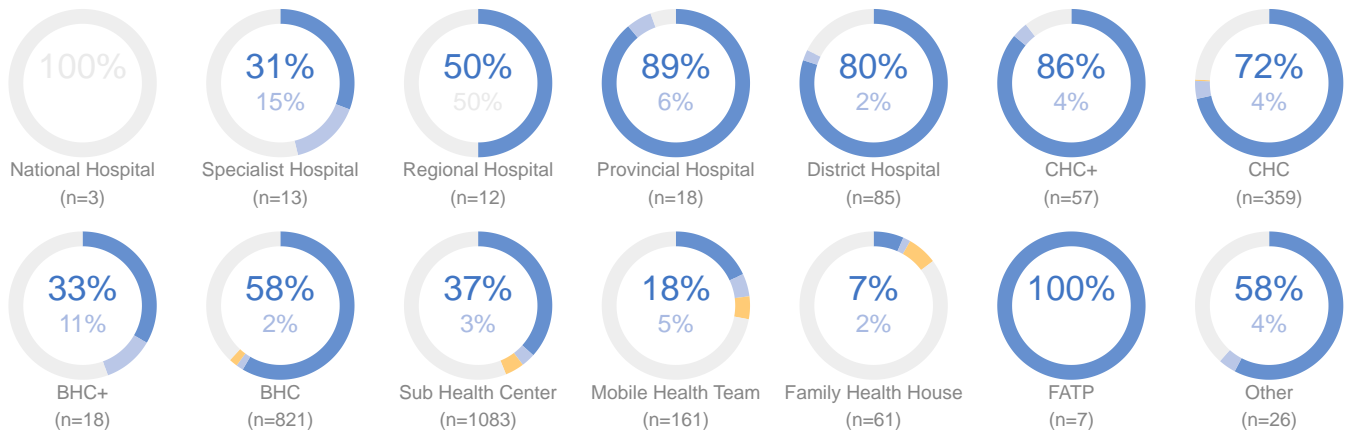
## Service availability by region\*



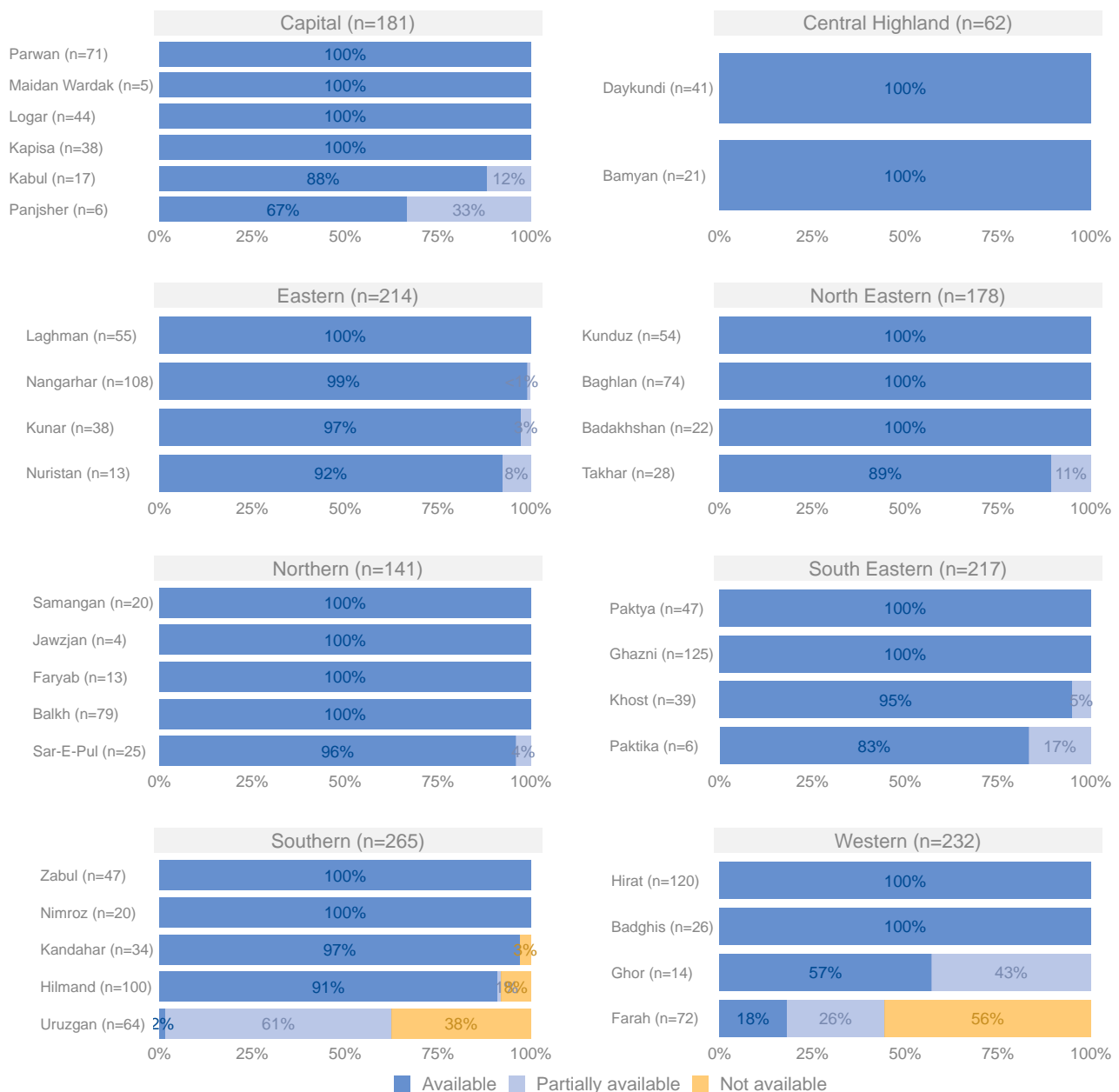
## Main barriers impeding service delivery by region



### Service availability by health facility type



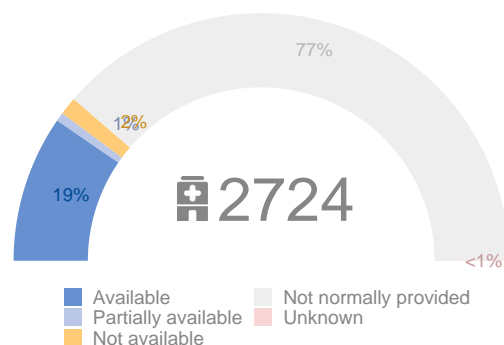
### Service availability by province†



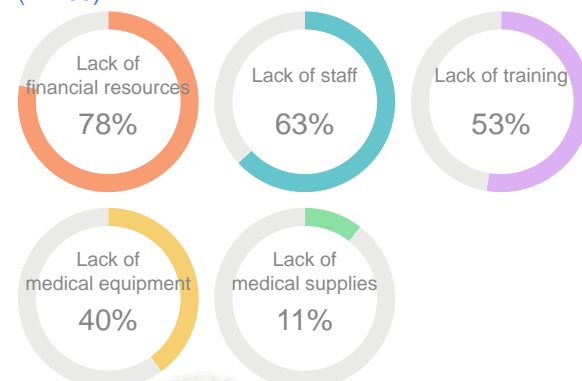
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# ACCEPTANCE OF COMPLEX REFERRALS

## Service availability

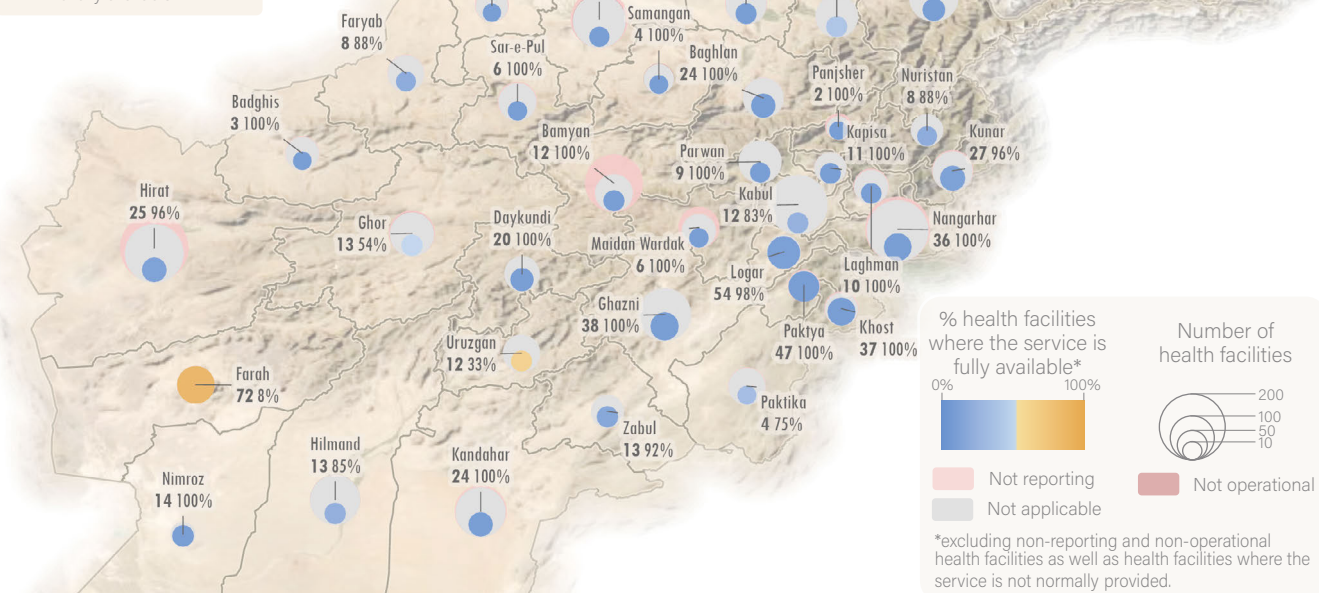


## Main barriers impeding service delivery (n = 95)

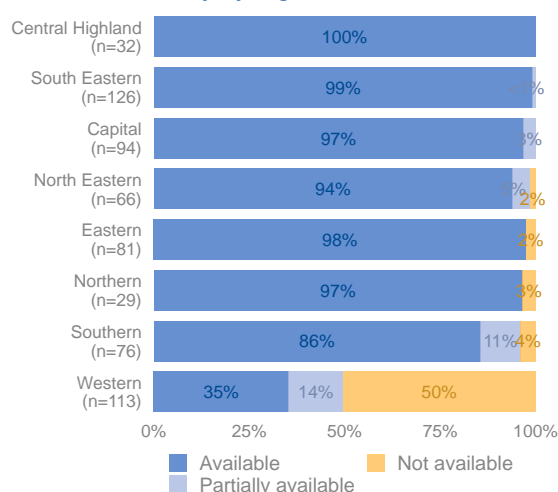


### Map labels

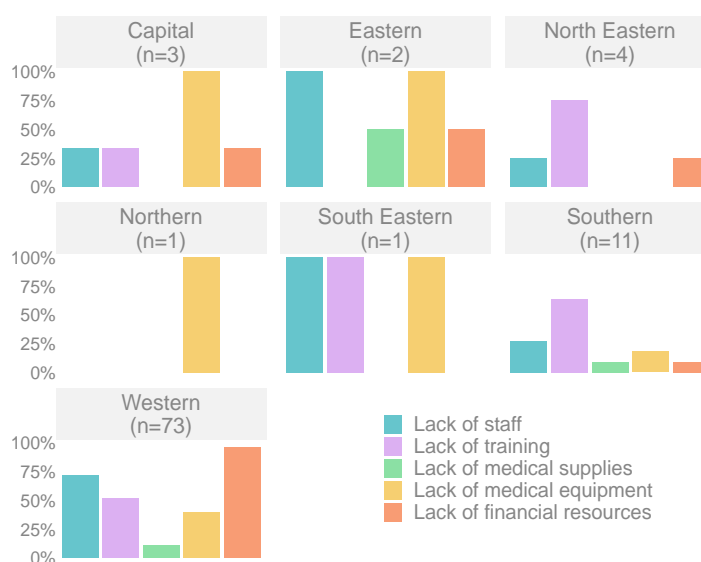
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



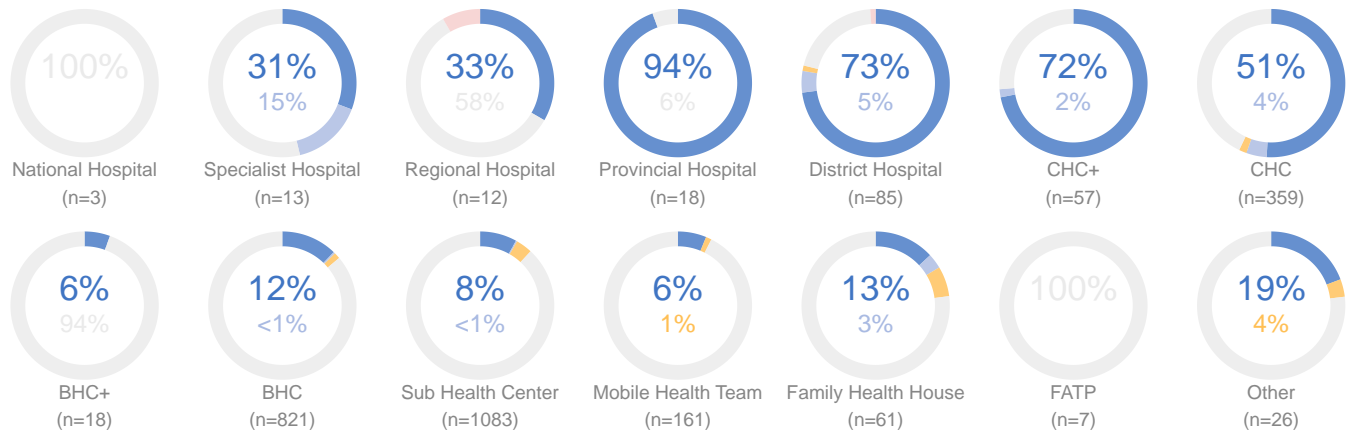
## Service availability by region†



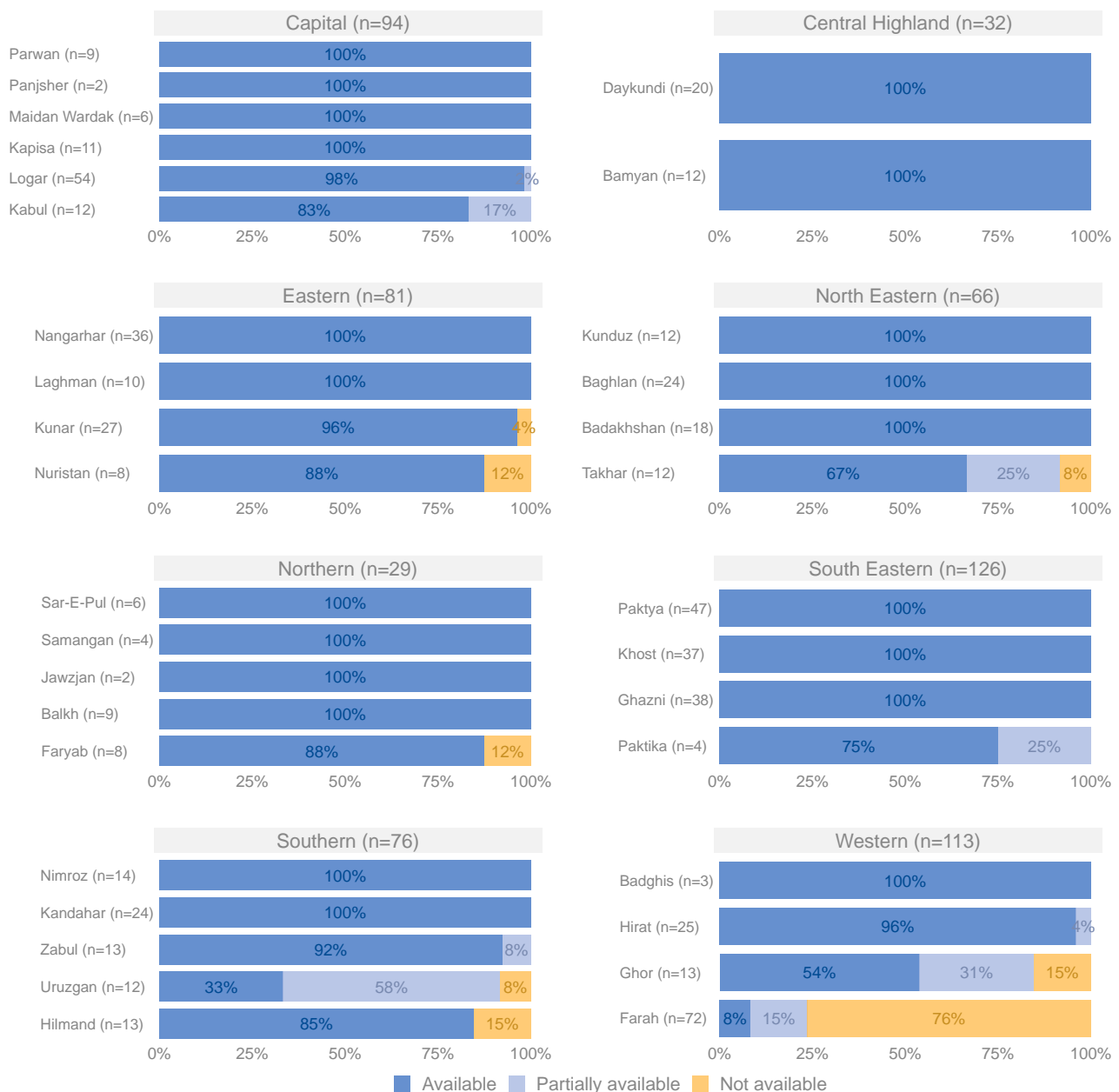
## Main barriers impeding service delivery by region



### Service availability by health facility type



### Service availability by province†

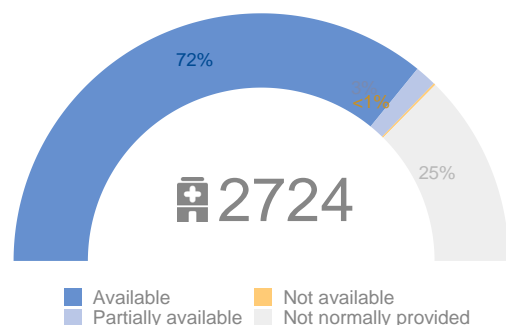


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

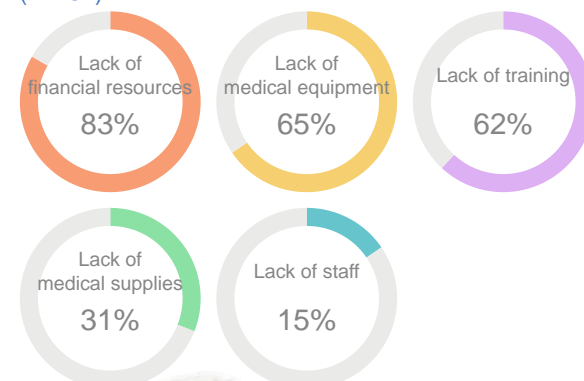


# OUTPATIENT SERVICES FOR PRIMARY CARE

## Service availability

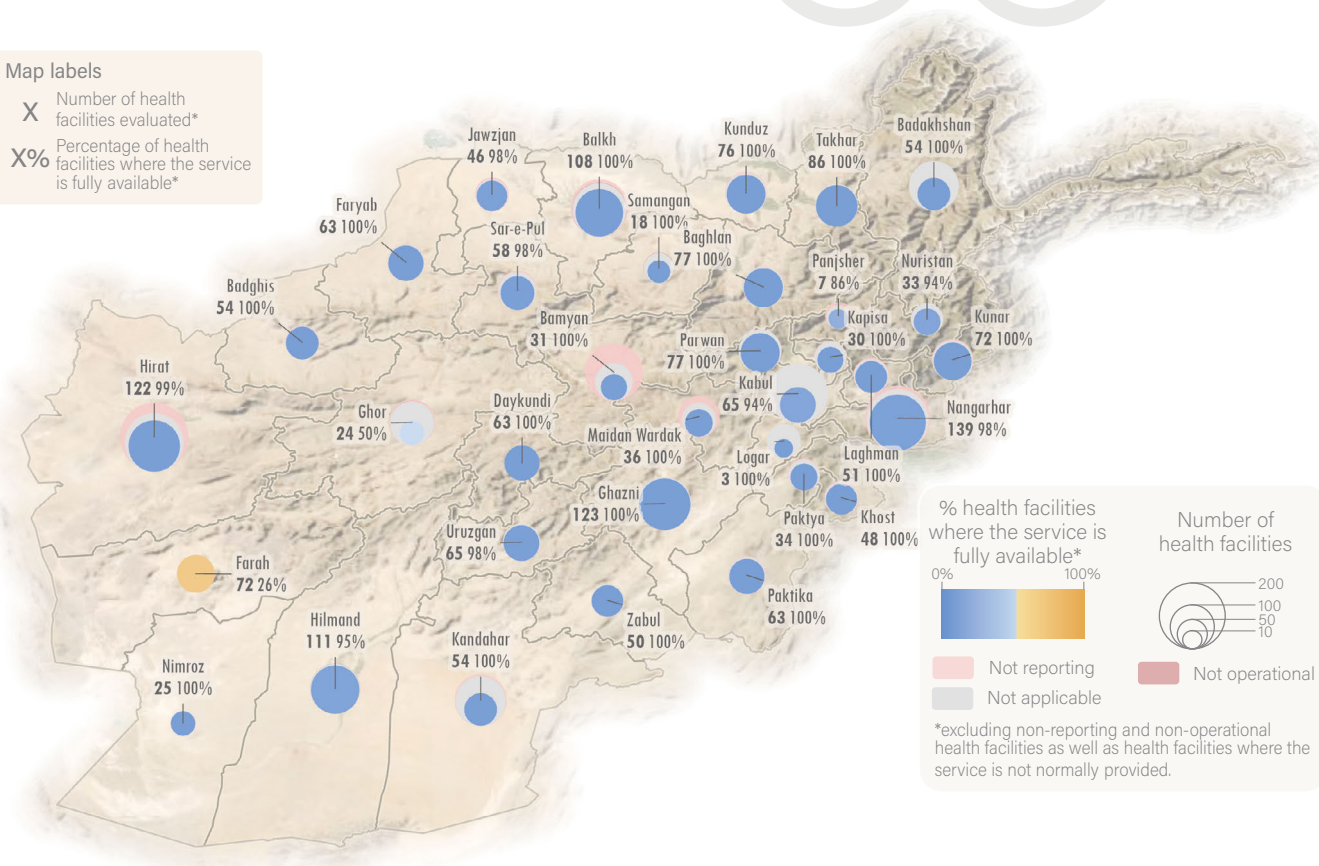


## Main barriers impeding service delivery (n = 84)

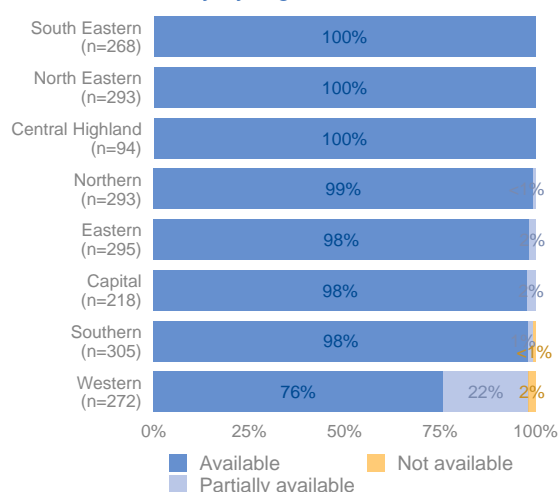


### Map labels

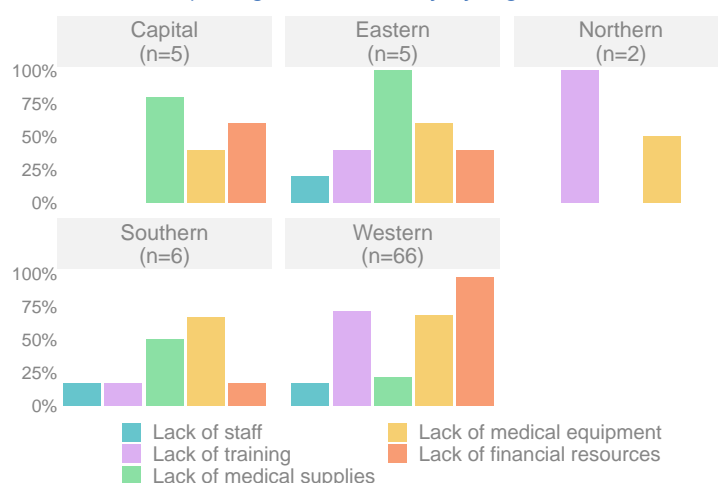
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



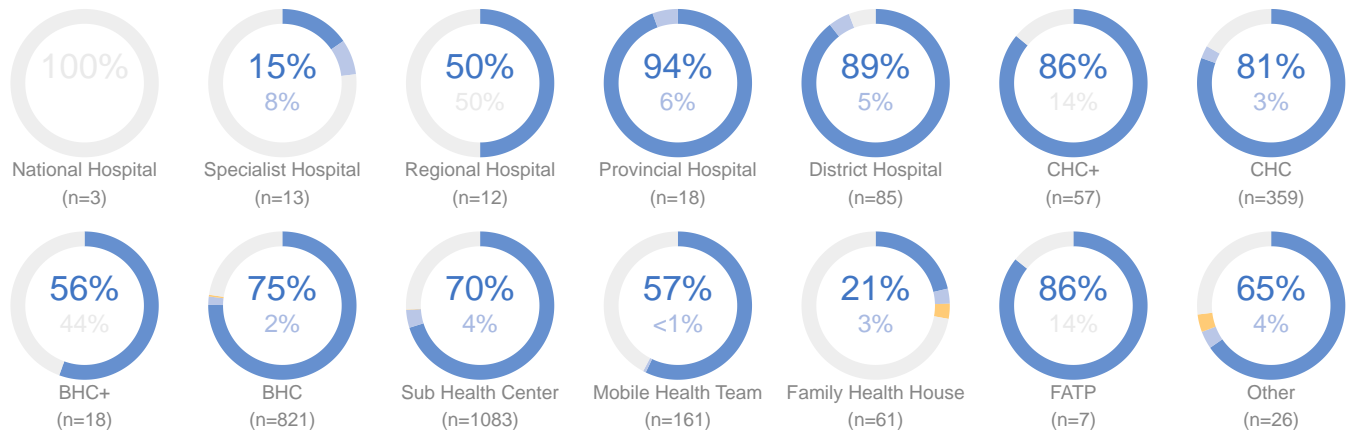
## Service availability by region†



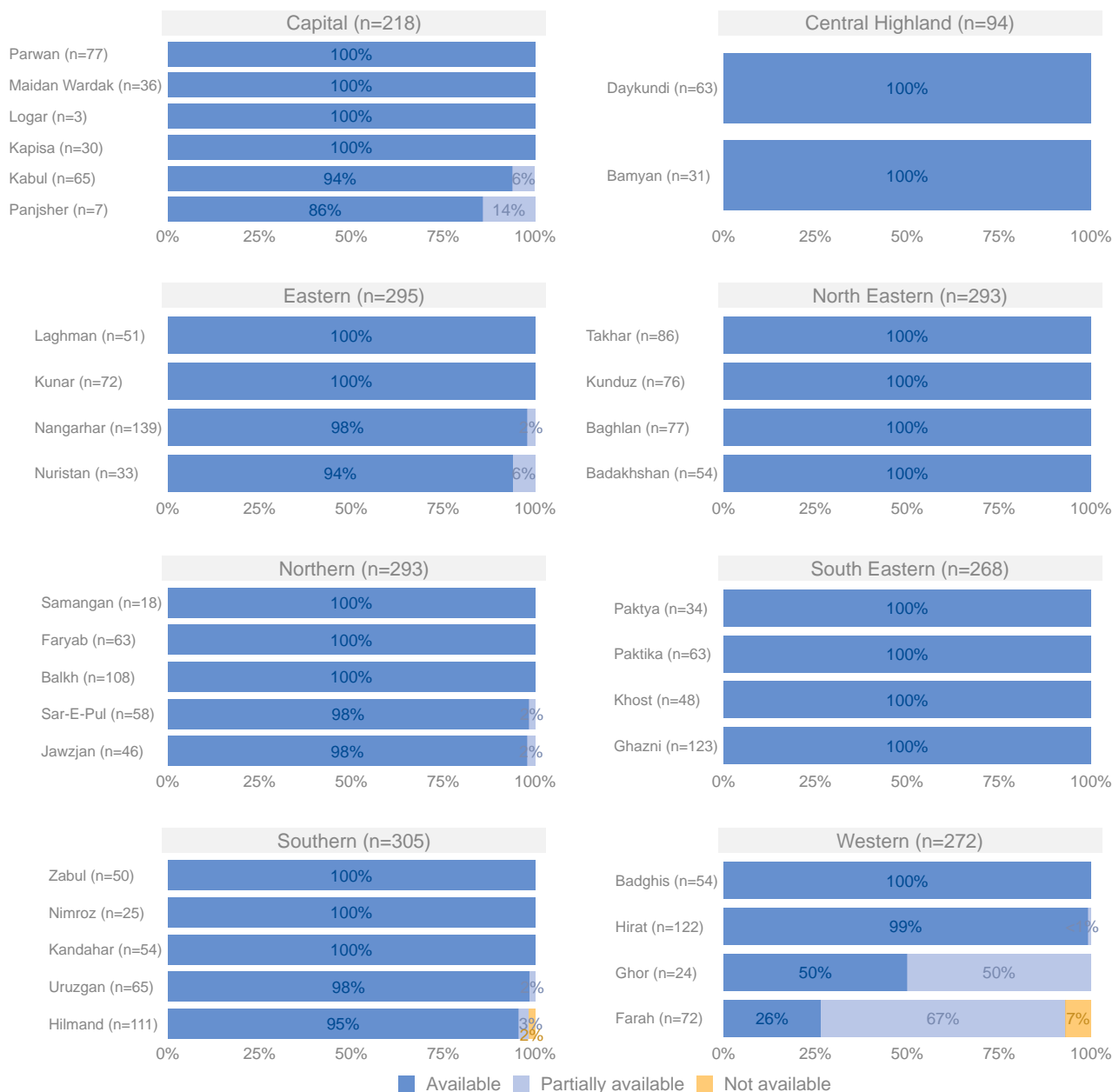
## Main barriers impeding service delivery by region



## Service availability by health facility type



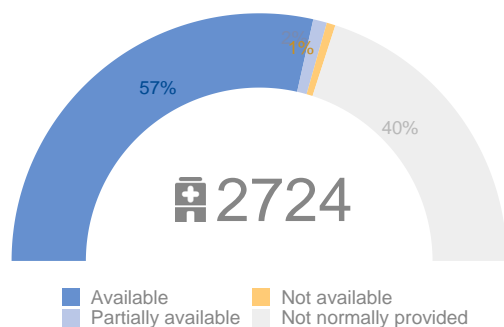
## Service availability by province†



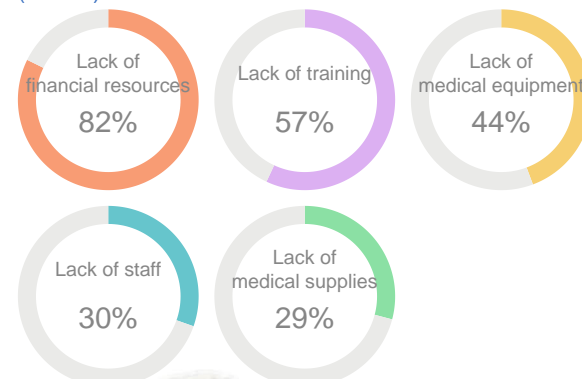
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# OUTPATIENT DEPARTMENT FOR SECONDARY CARE

## Service availability

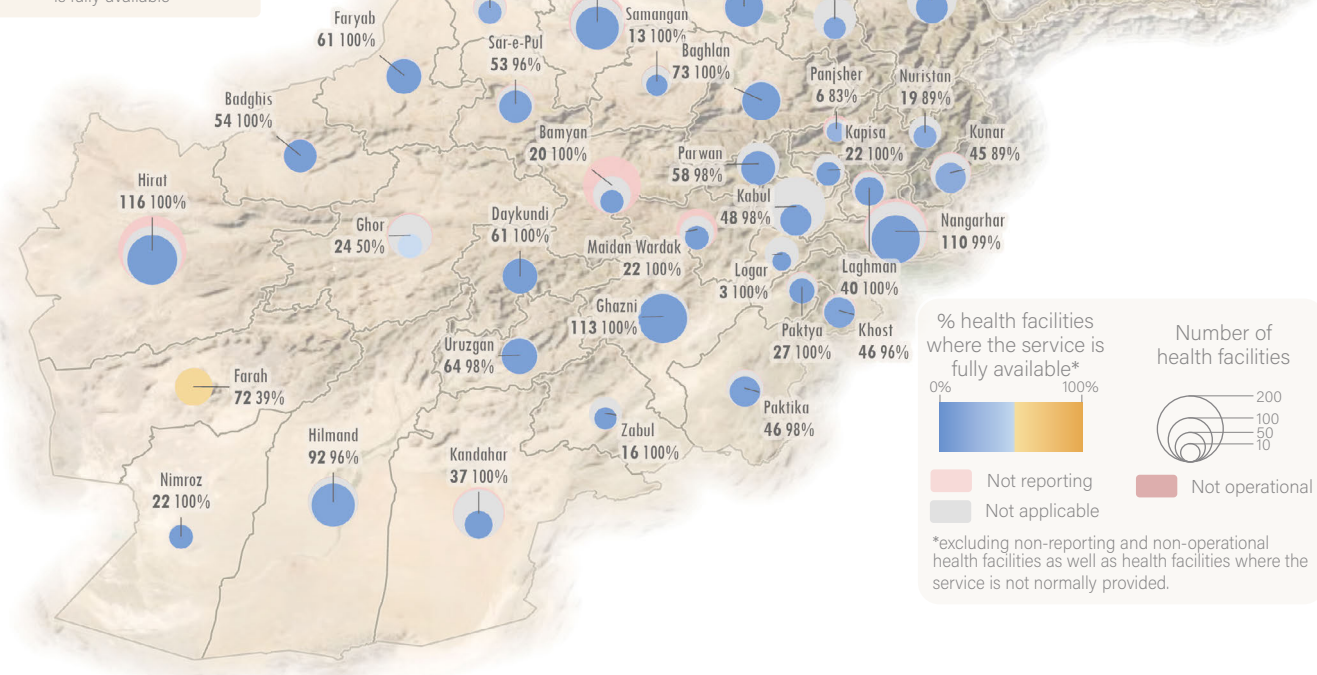


## Main barriers impeding service delivery (n = 79)

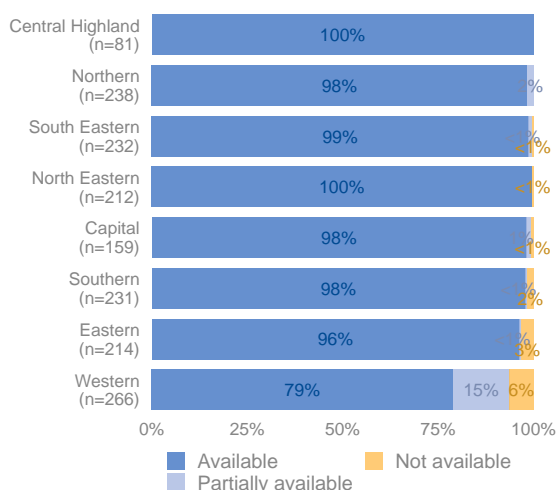


### Map labels

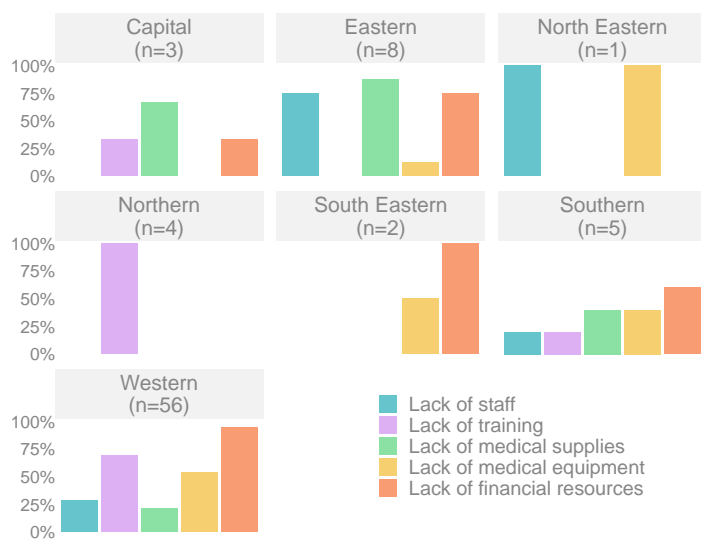
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Service availability by region\*

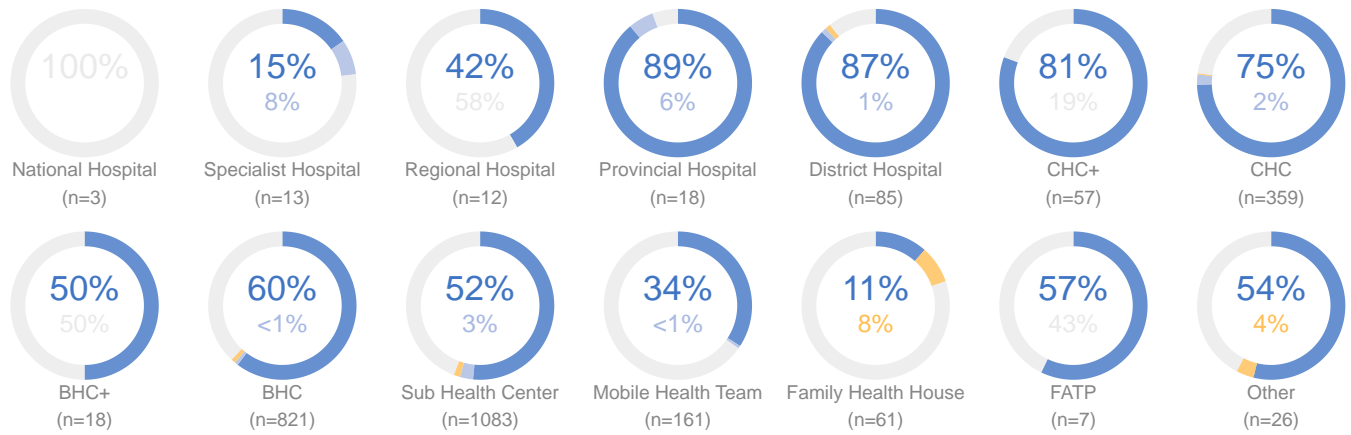


## Main barriers impeding service delivery by region

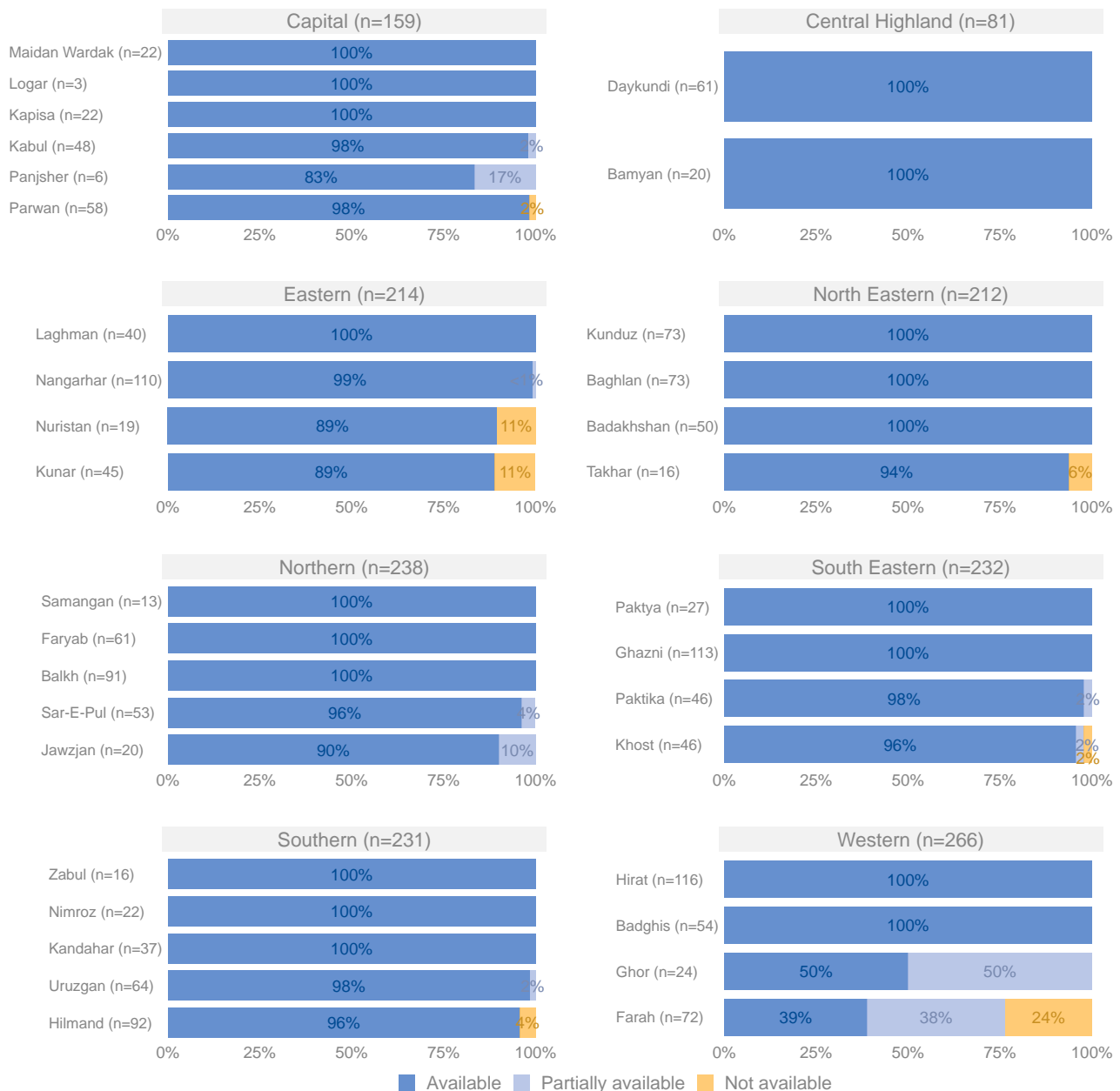




### Service availability by health facility type



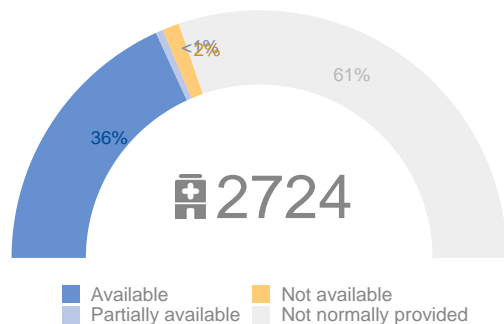
### Service availability by province†



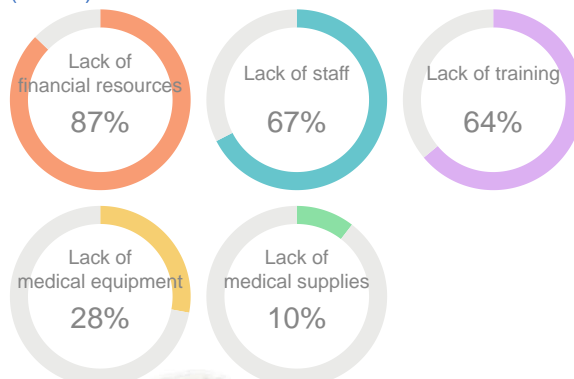
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# HOME VISITS

## Service availability

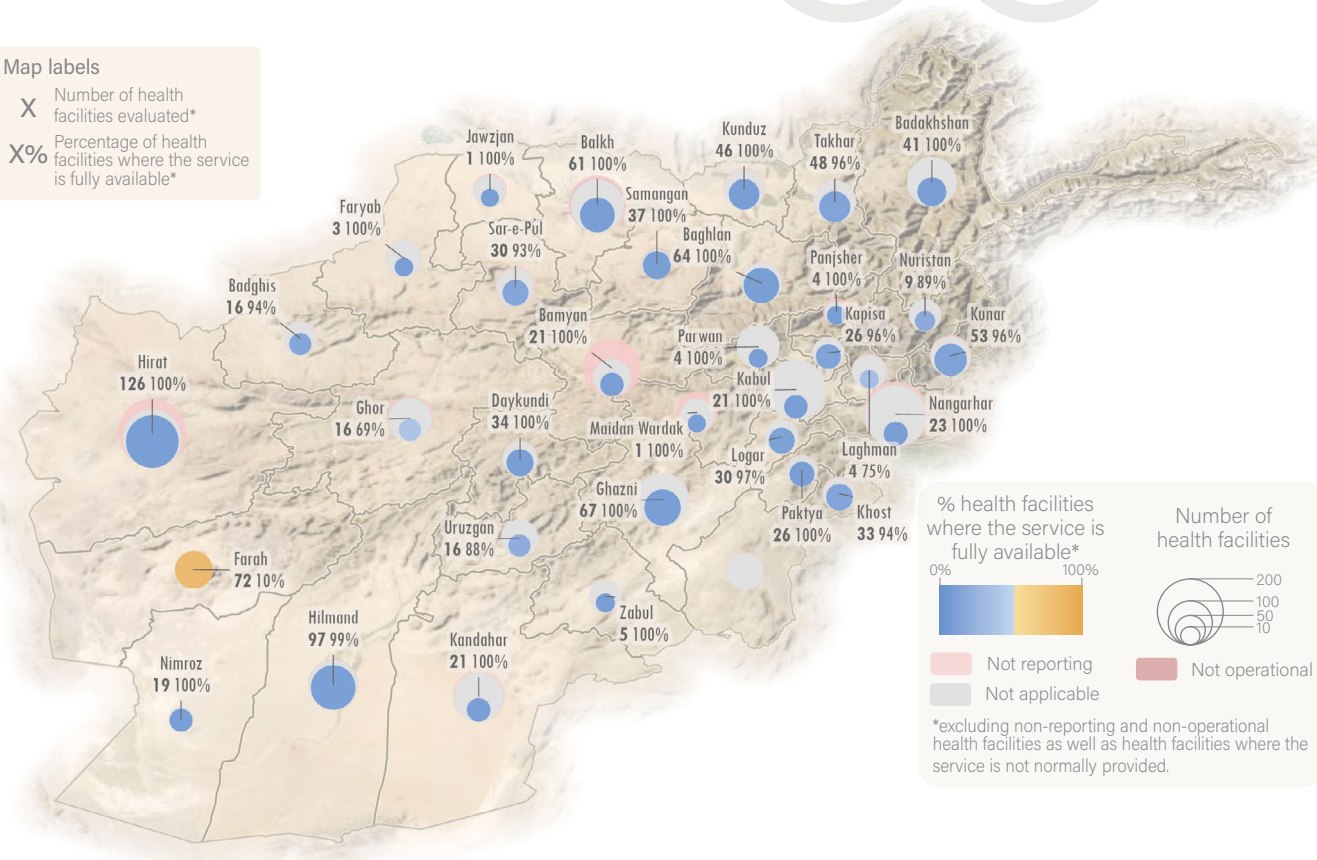


## Main barriers impeding service delivery (n = 86)

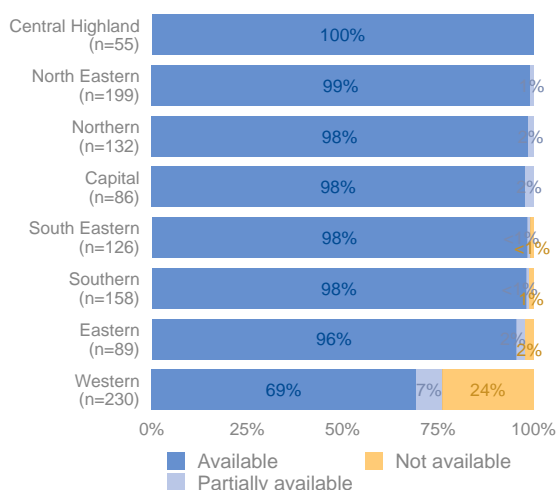


### Map labels

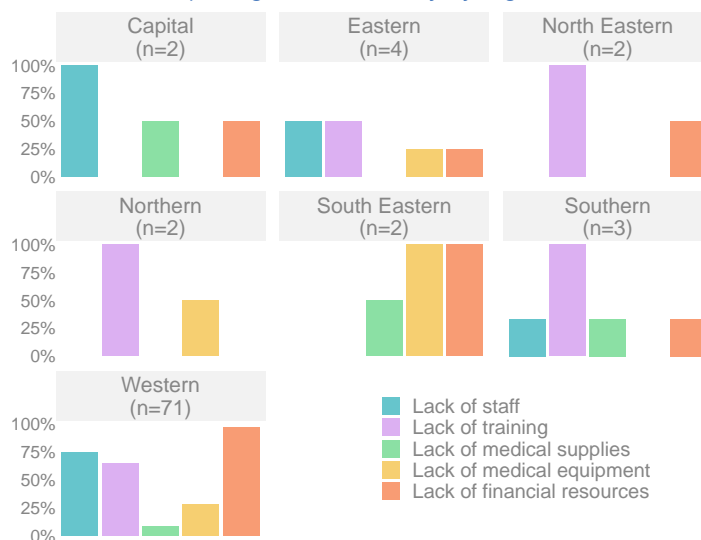
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



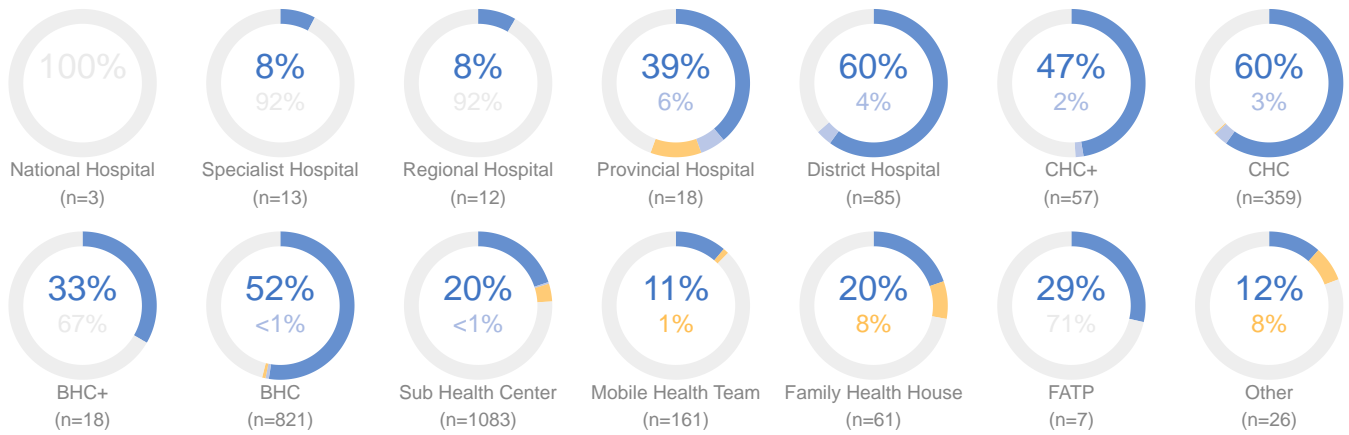
## Service availability by region\*



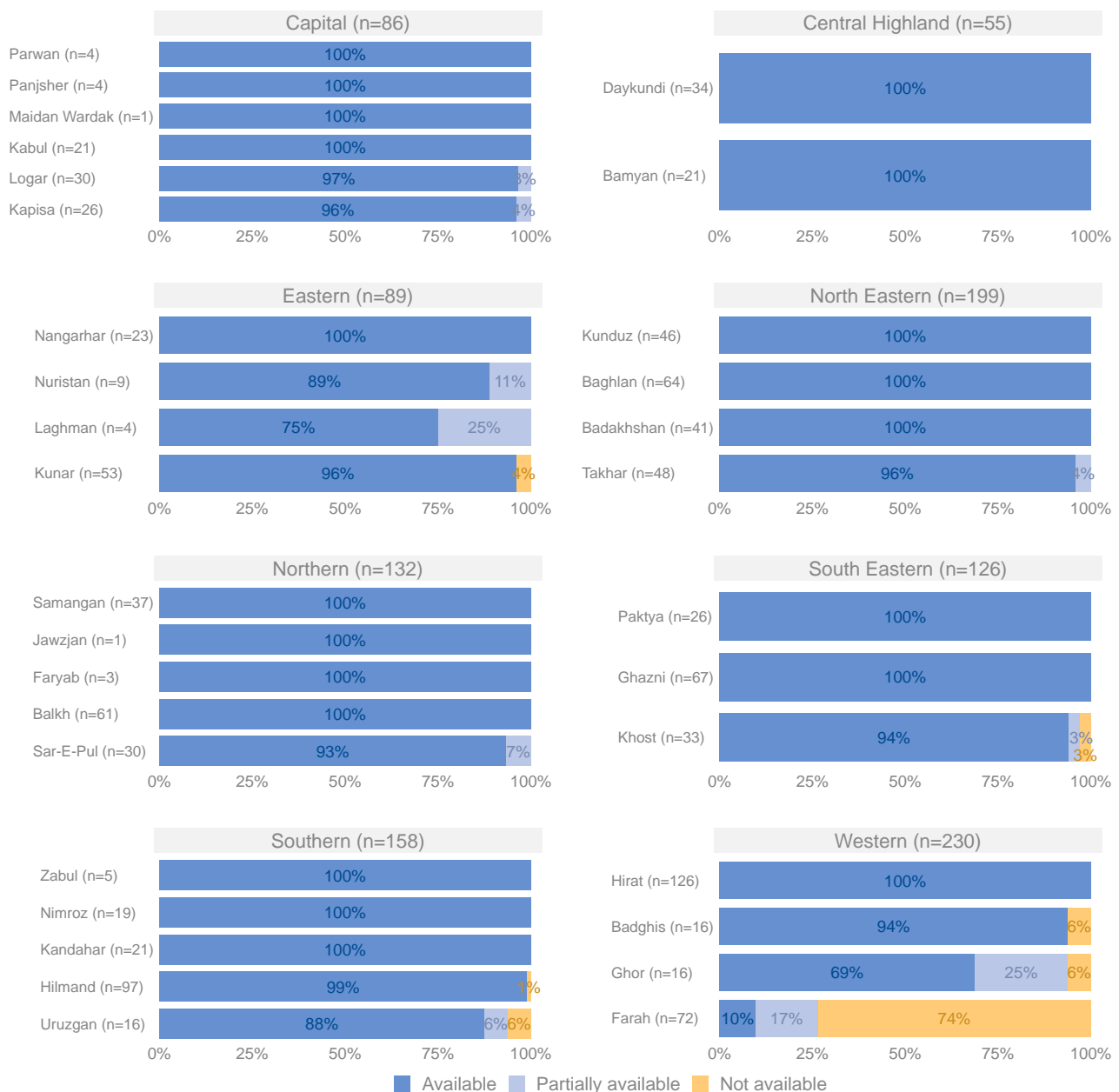
## Main barriers impeding service delivery by region



### Service availability by health facility type



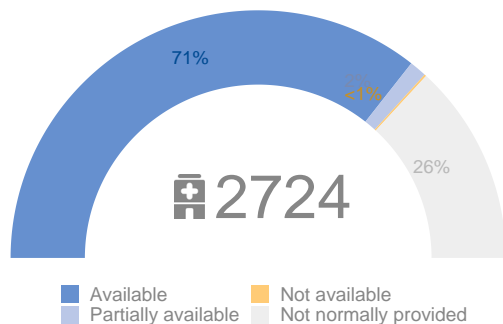
### Service availability by province†



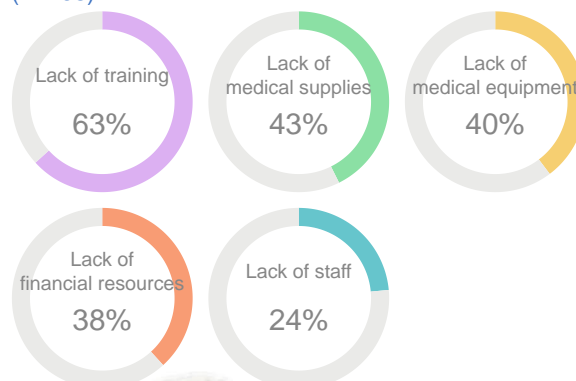
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# MINOR TRAUMA DEFINITIVE MANAGEMENT

## Service availability

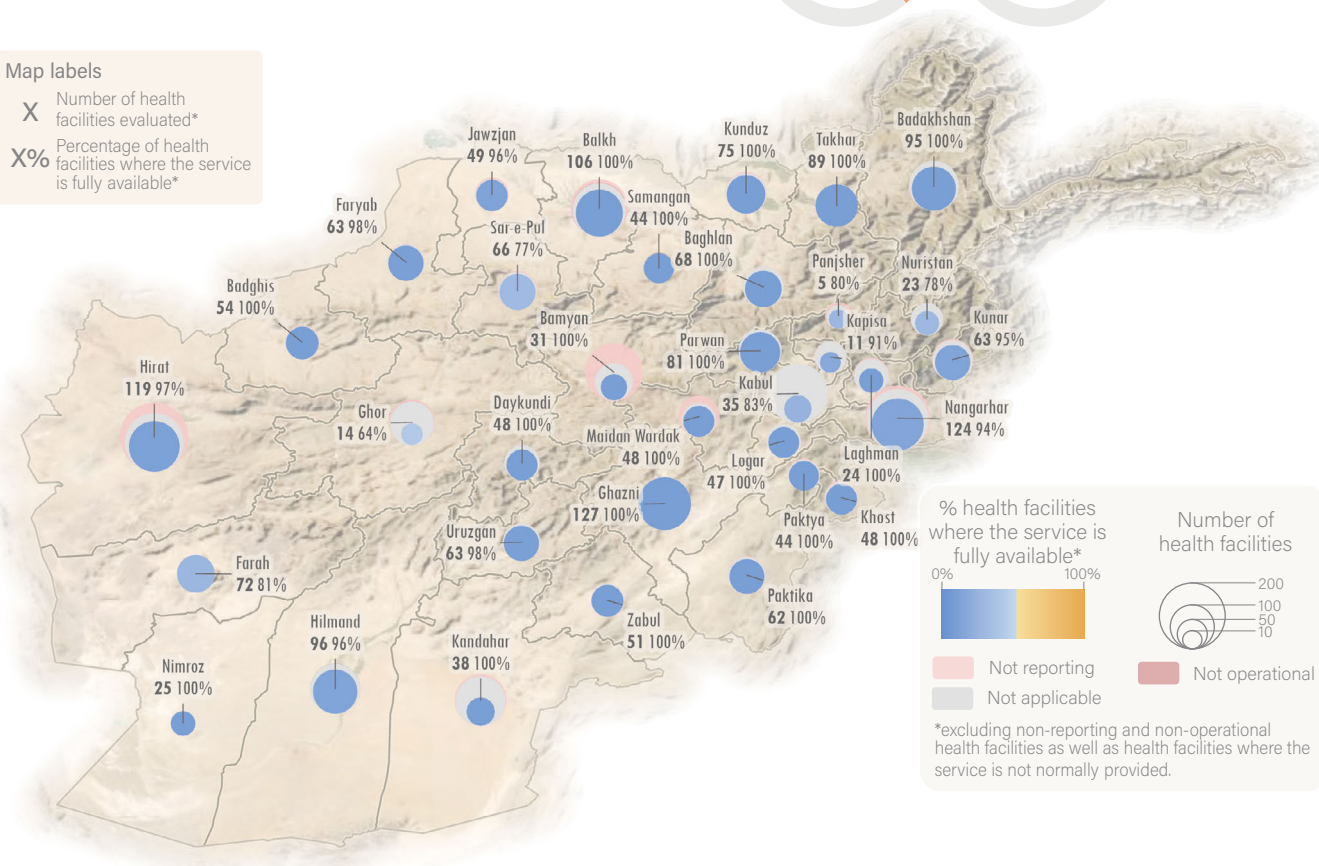


## Main barriers impeding service delivery (n = 68)

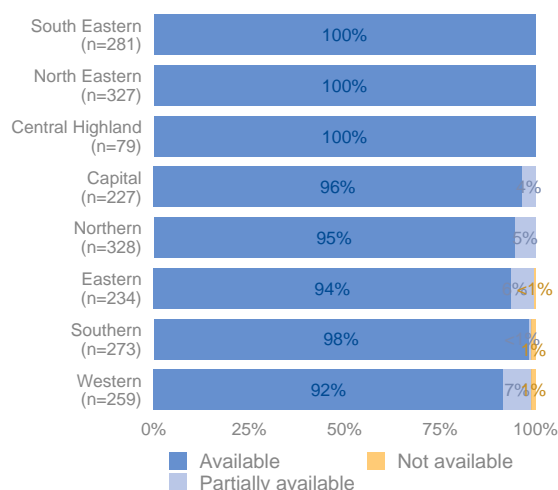


### Map labels

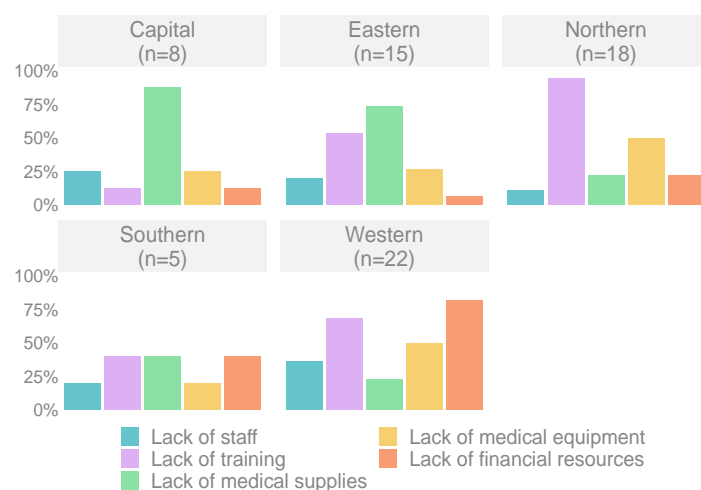
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



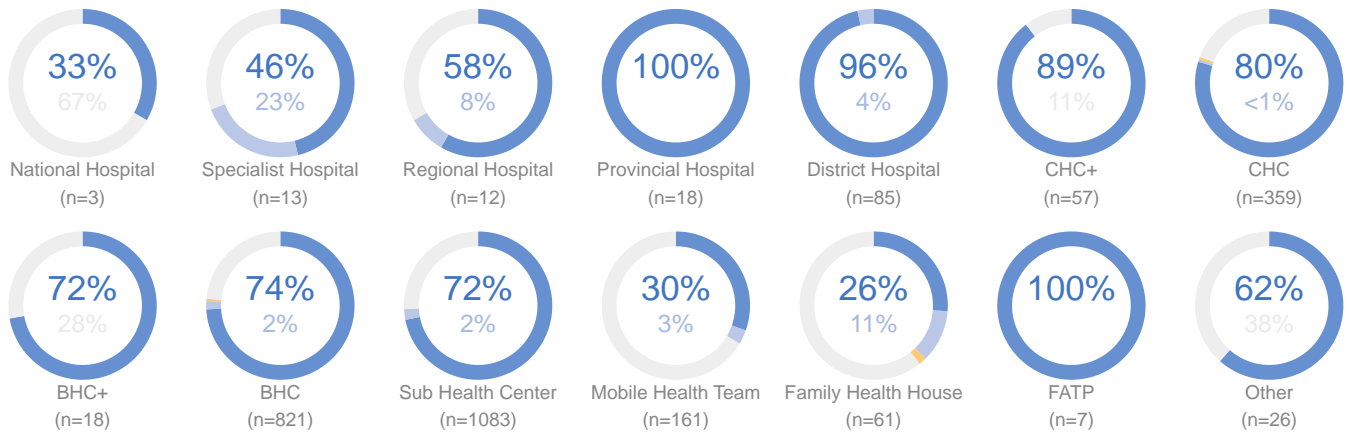
## Service availability by region†



## Main barriers impeding service delivery by region



### Service availability by health facility type



### Service availability by province†

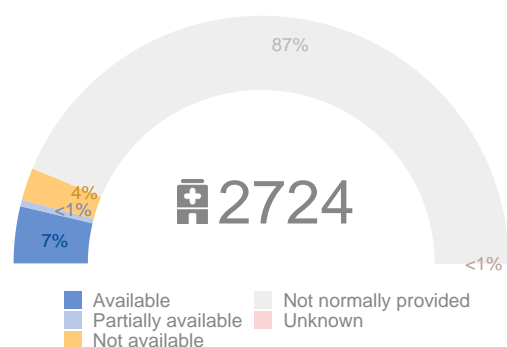


† Chart excludes health facilities where the service is not normally provided or availability is unknown.



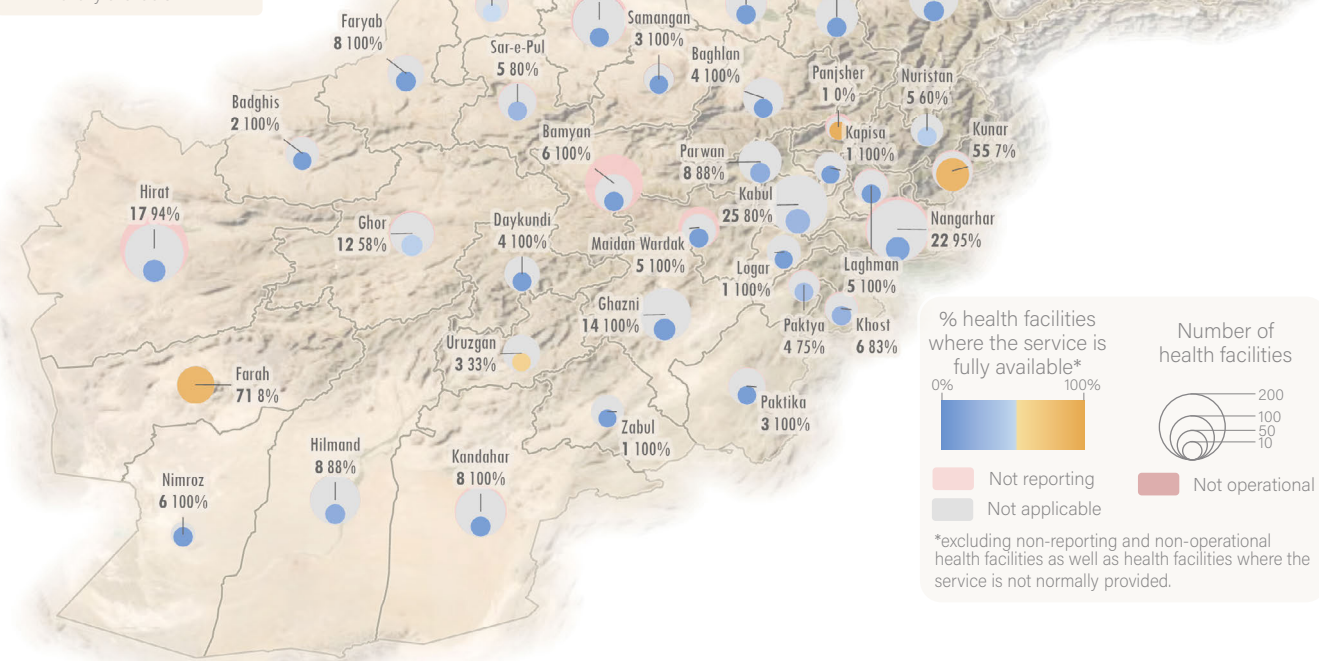
# EMERGENCY AND ELECTIVE SURGERY

## Service availability

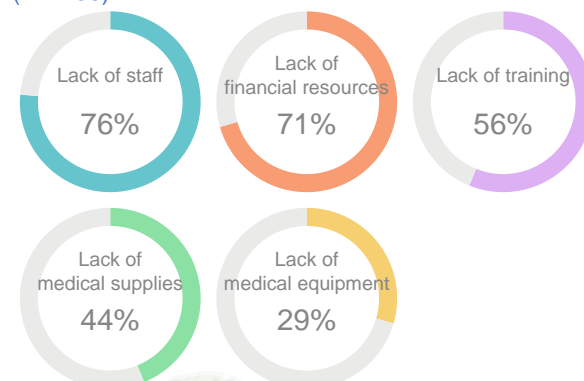


### Map labels

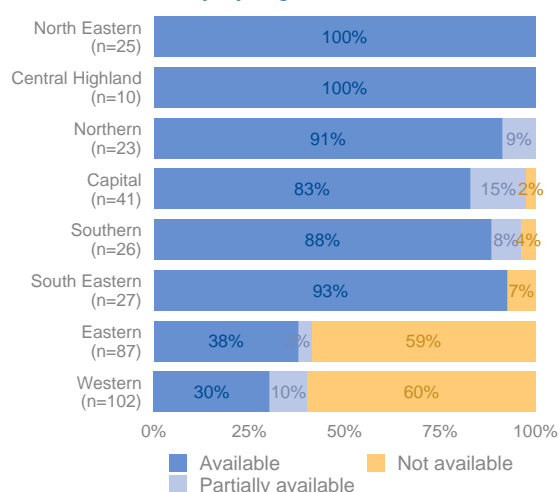
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



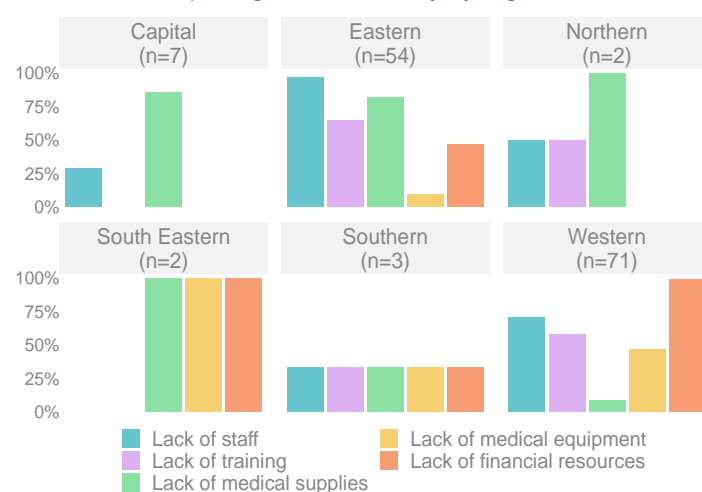
## Main barriers impeding service delivery (n = 139)



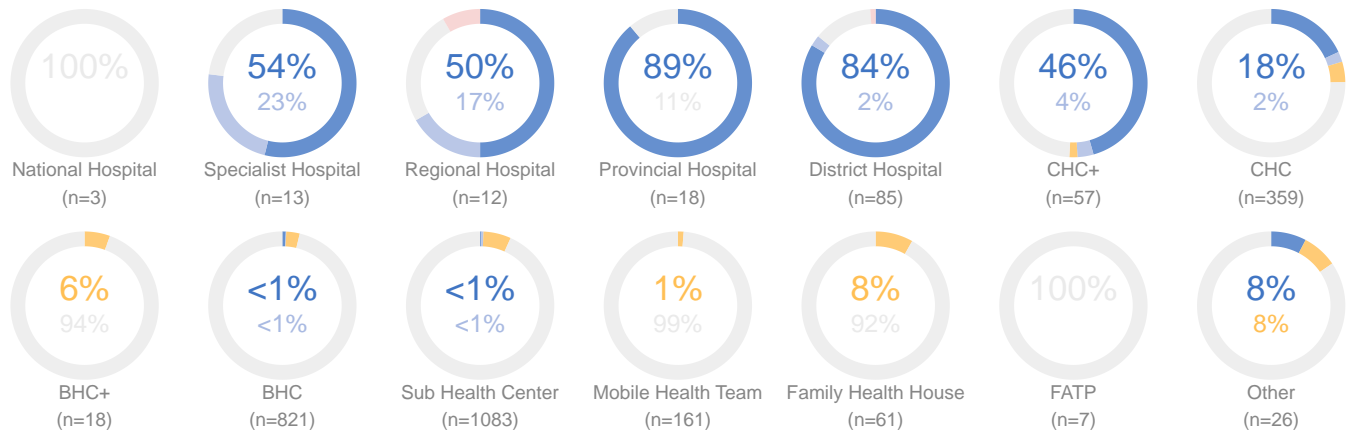
## Service availability by region†



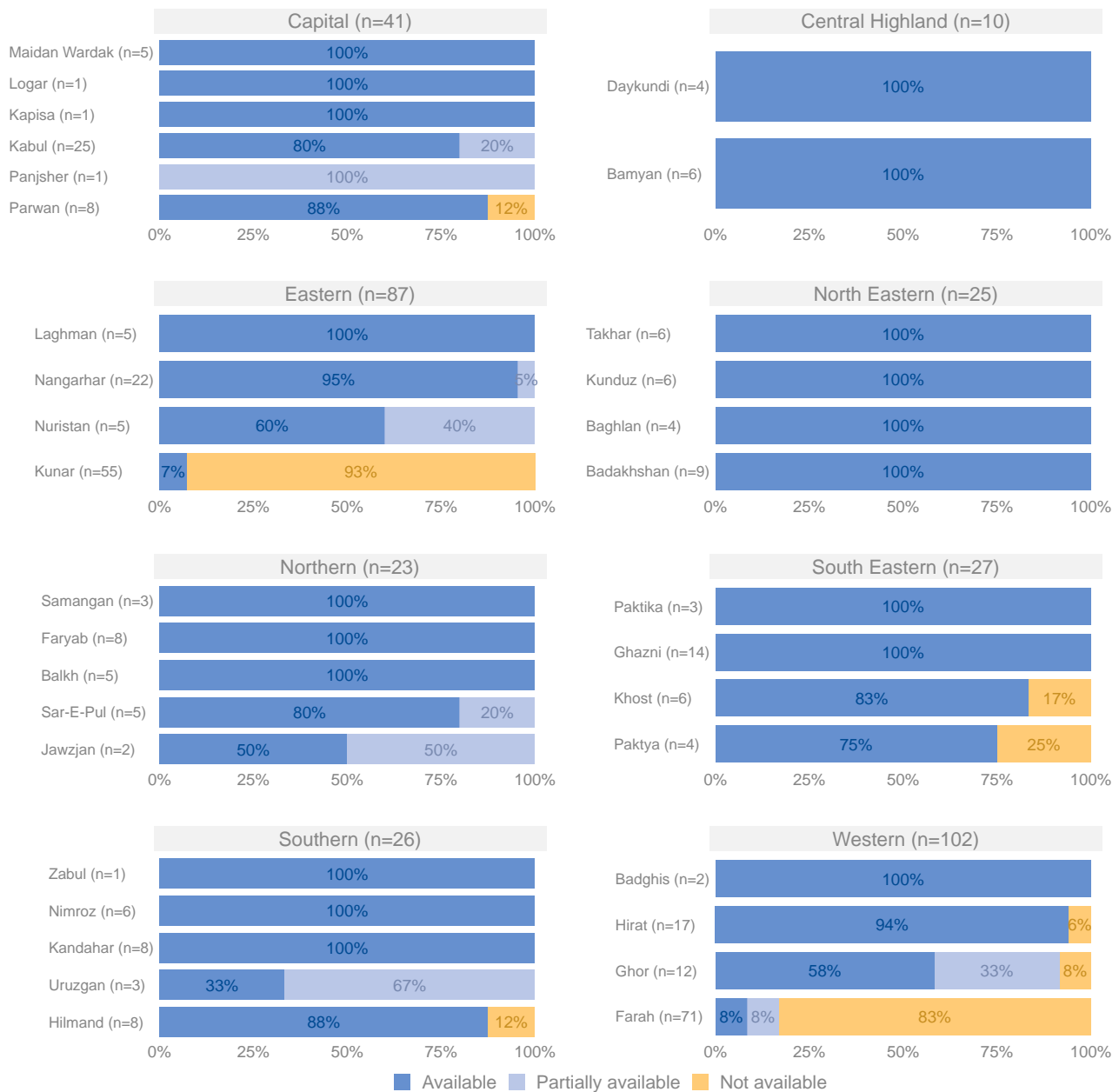
## Main barriers impeding service delivery by region



### Service availability by health facility type



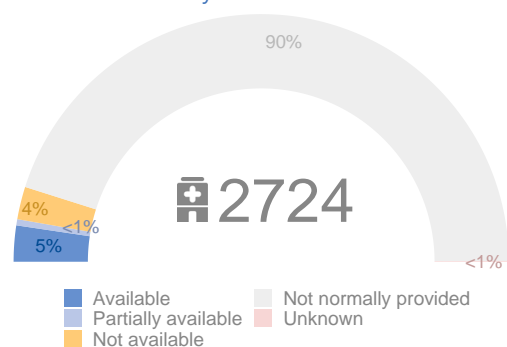
### Service availability by province†



† Chart excludes health facilities where the service is not normally provided or availability is unknown.

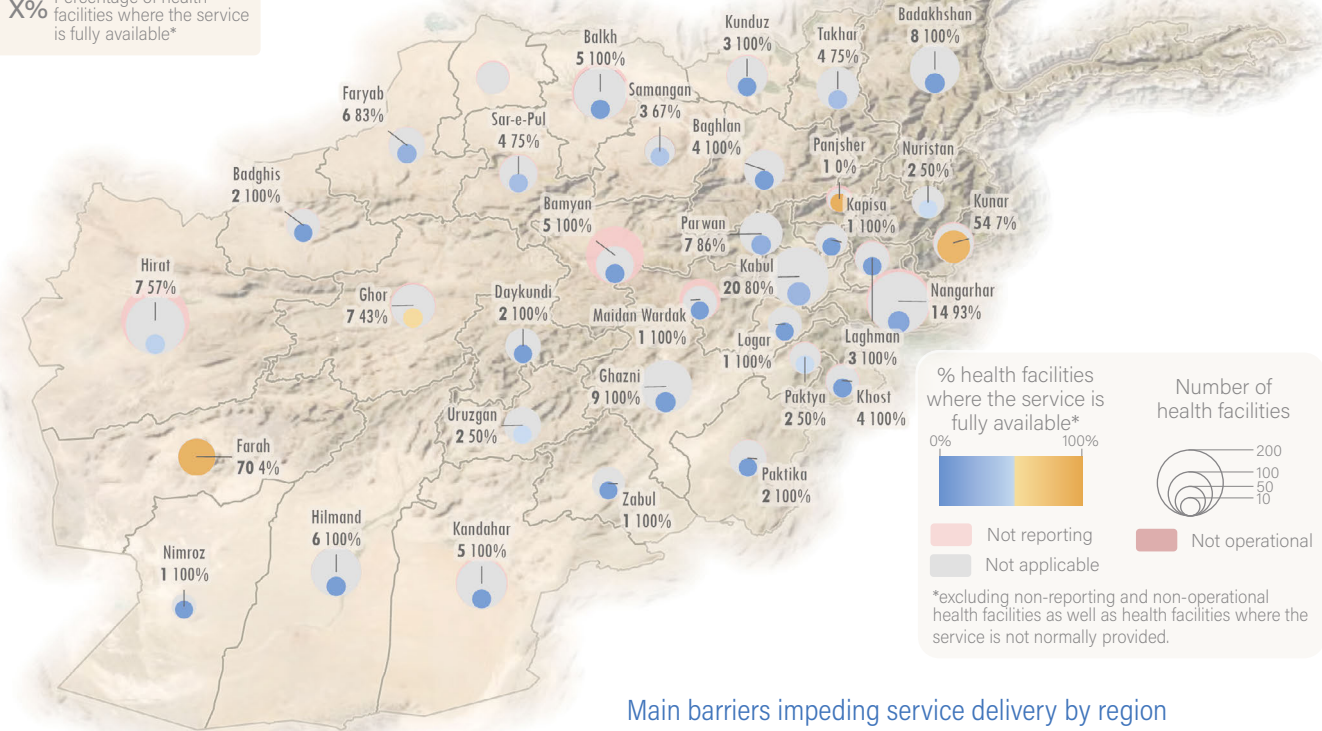
# EMERGENCY AND ELECTIVE SURGERY WITH AT LEAST TWO OPERATING THEATRES

## Service availability

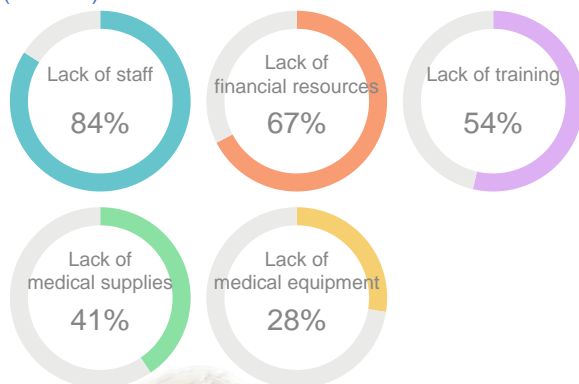


### Map labels

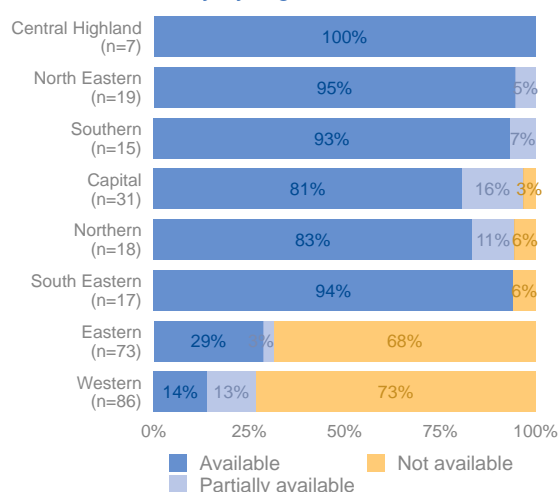
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Main barriers impeding service delivery (n = 138)



## Service availability by region\*

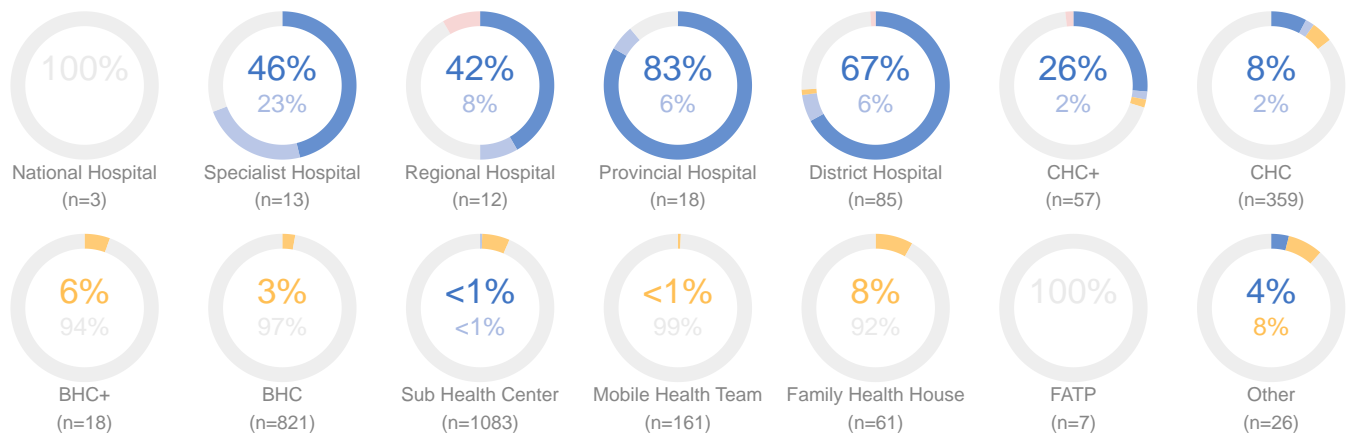


## Main barriers impeding service delivery by region

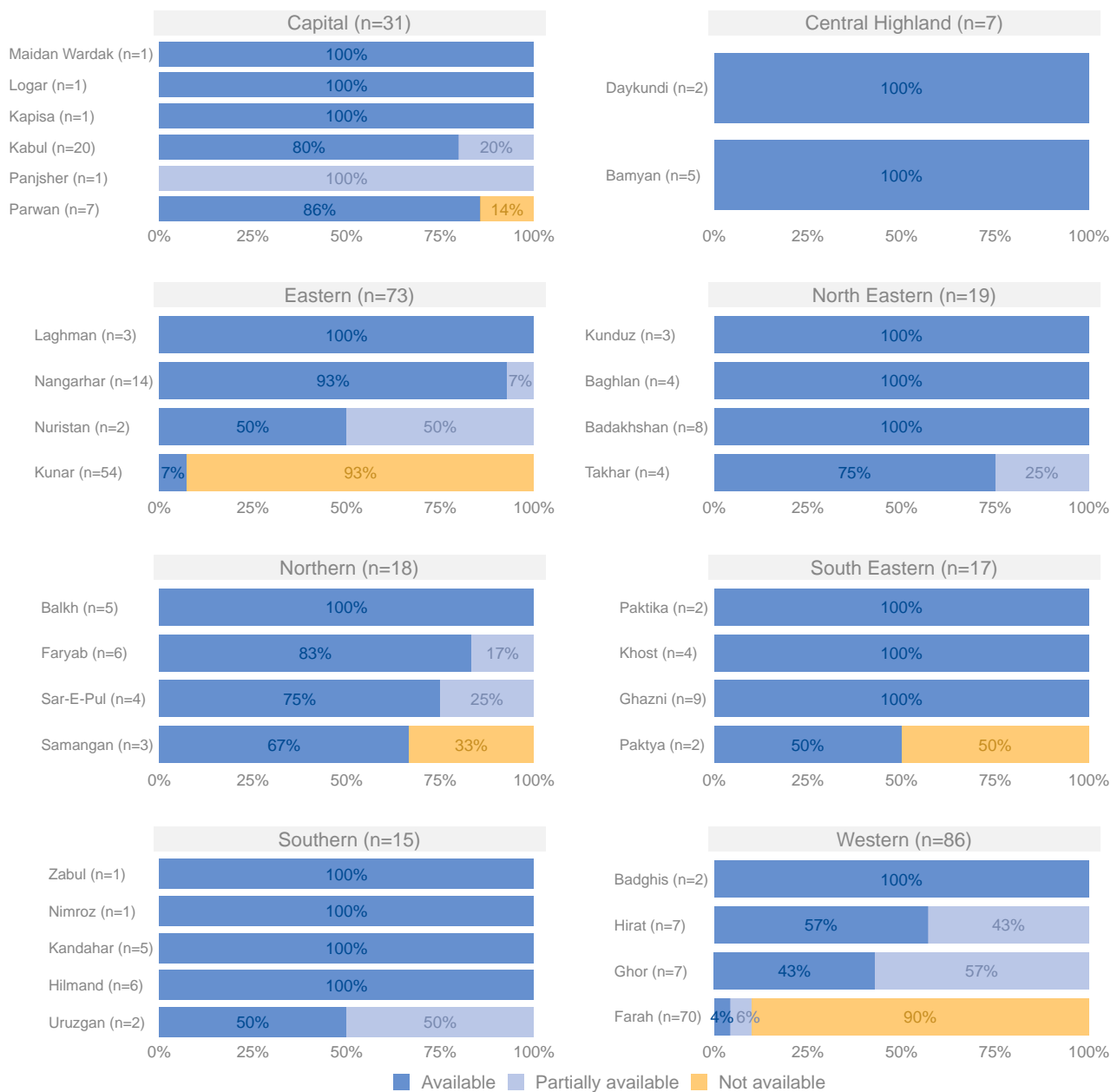




### Service availability by health facility type



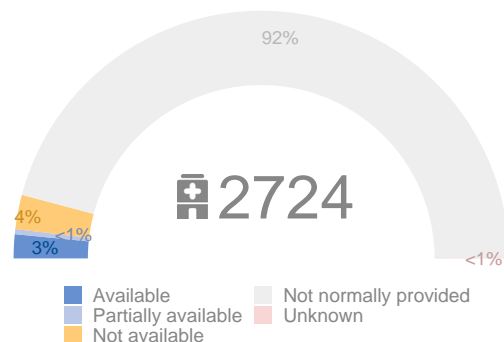
### Service availability by province†



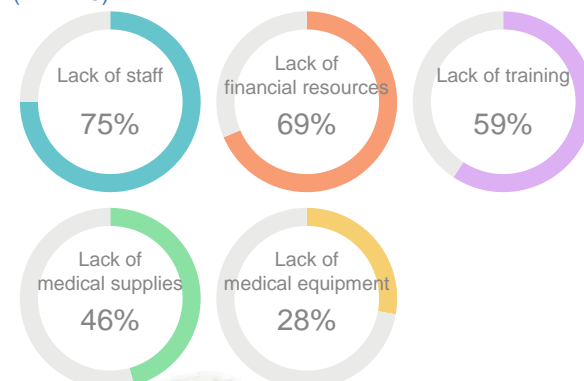
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# ORTHOPEDIC/TRAUMA WARD

## Service availability

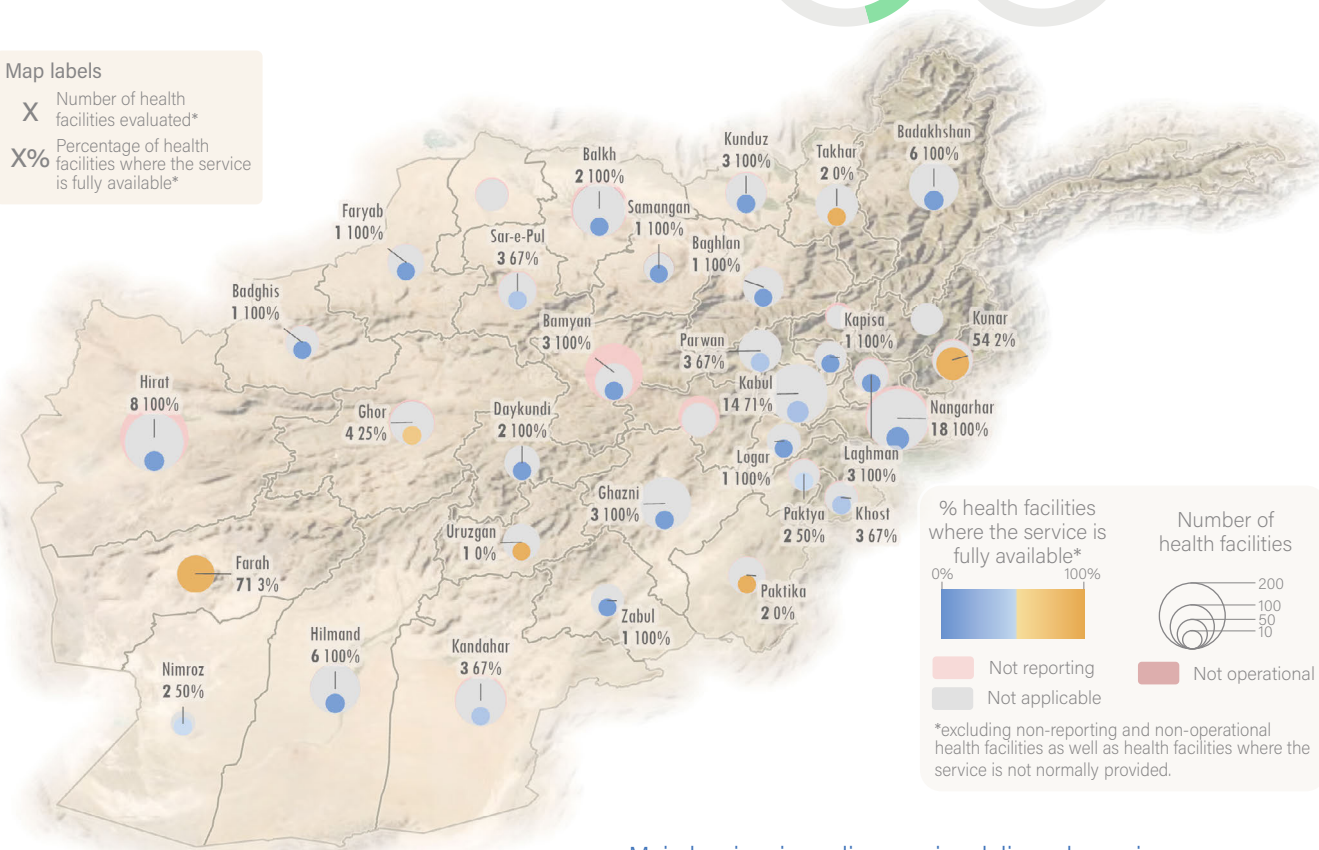


## Main barriers impeding service delivery (n = 140)

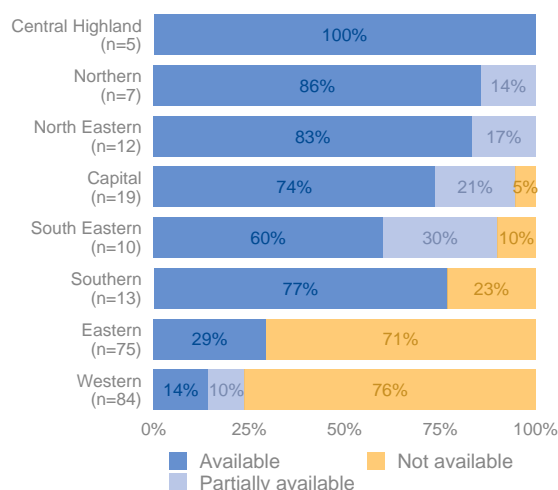


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



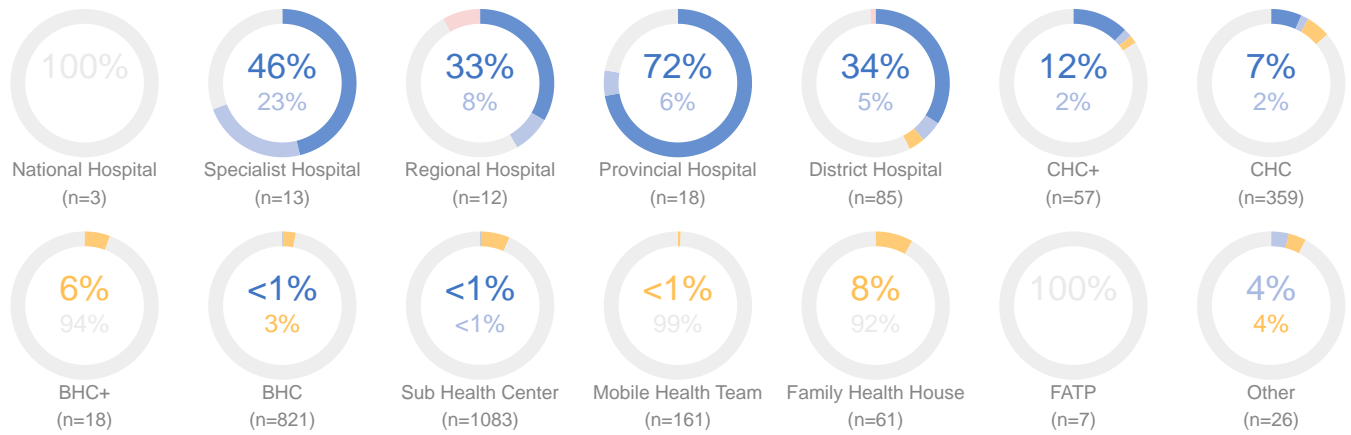
## Service availability by region\*



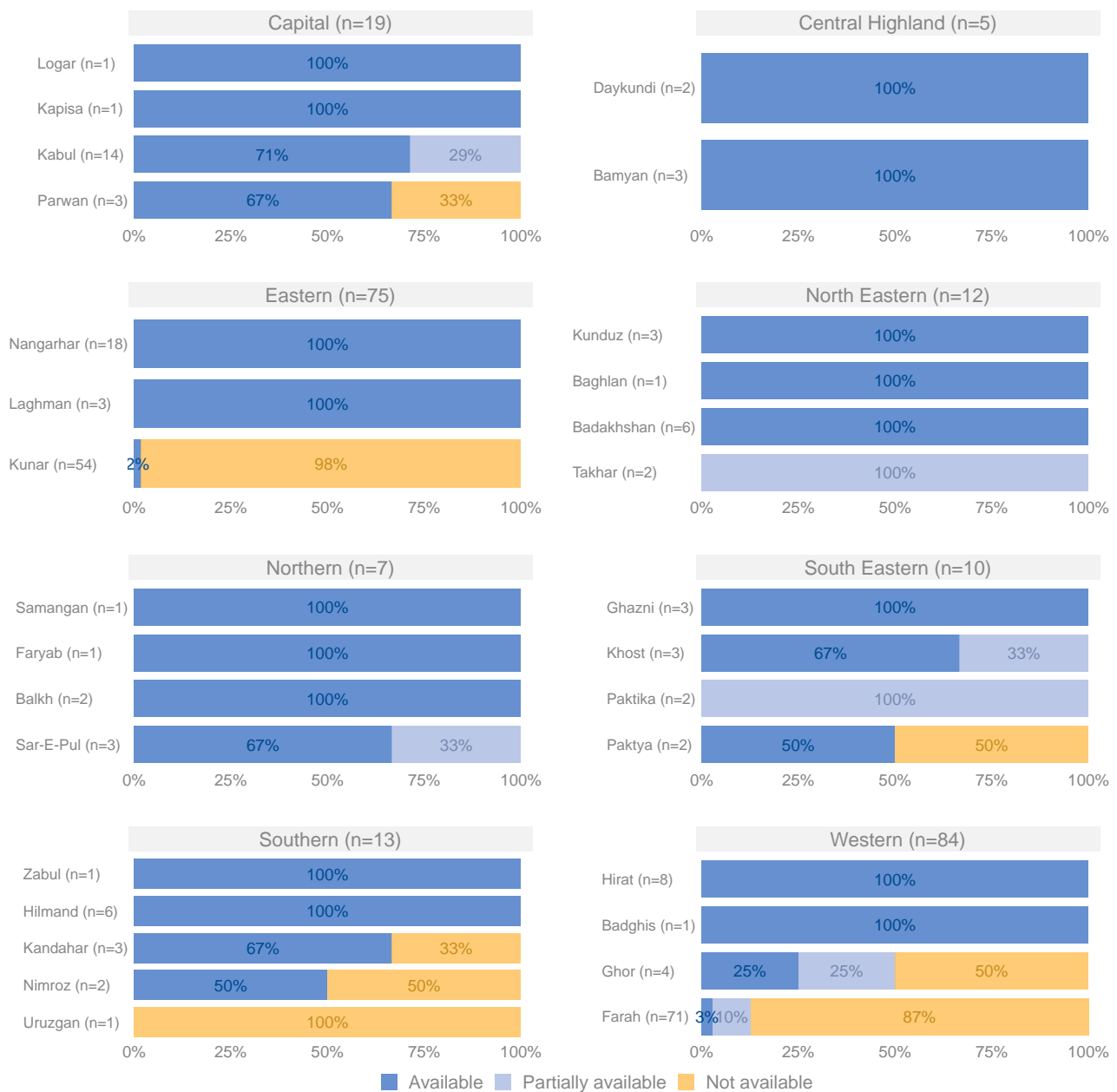
## Main barriers impeding service delivery by region



## Service availability by health facility type



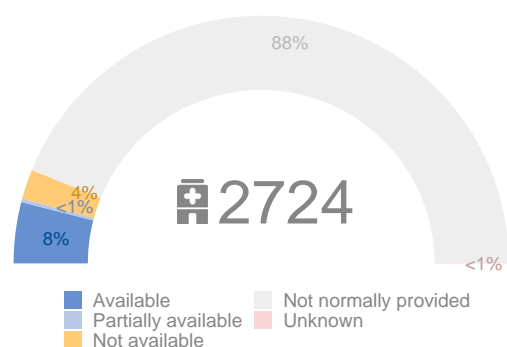
## Service availability by province†



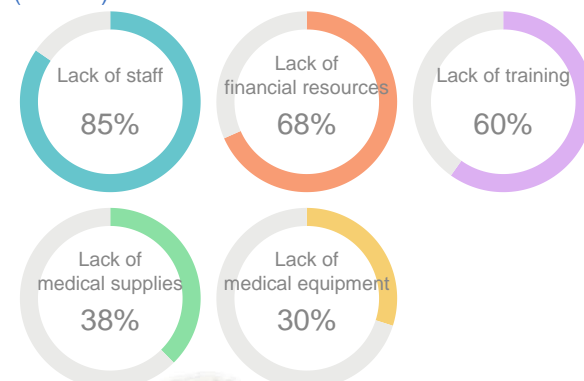
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# SHORT HOSPITALIZATION CAPACITY

## Service availability

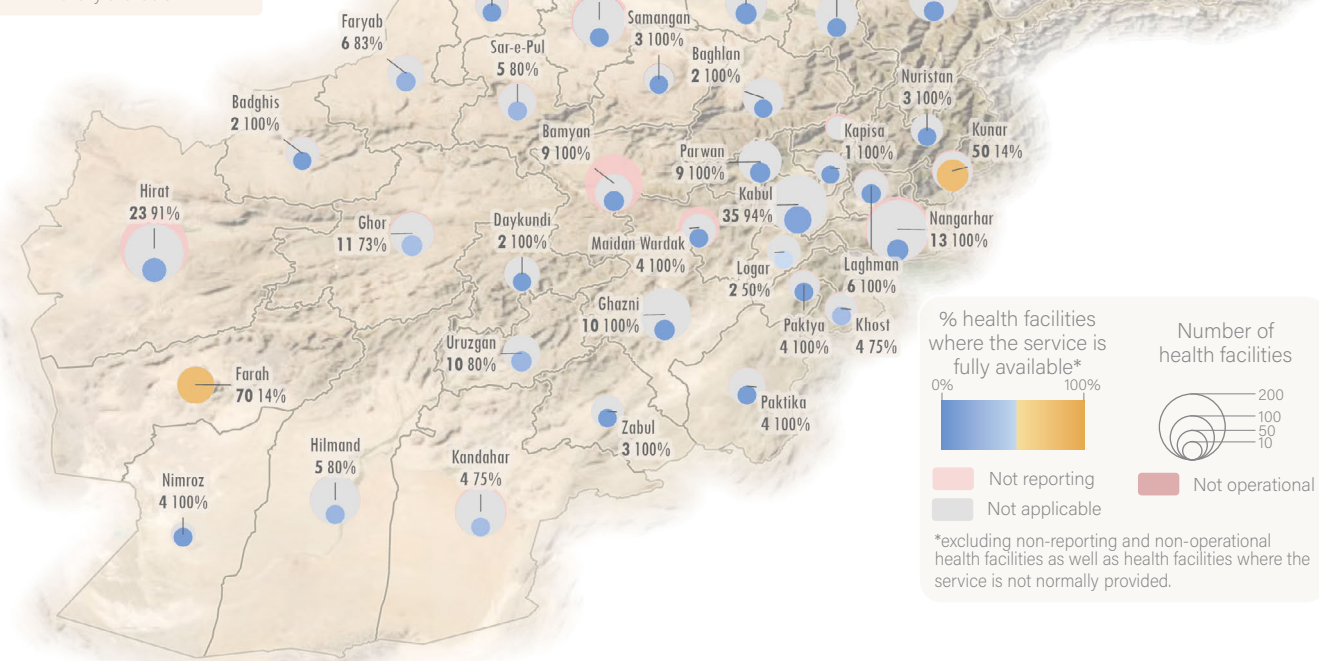


## Main barriers impeding service delivery (n = 117)

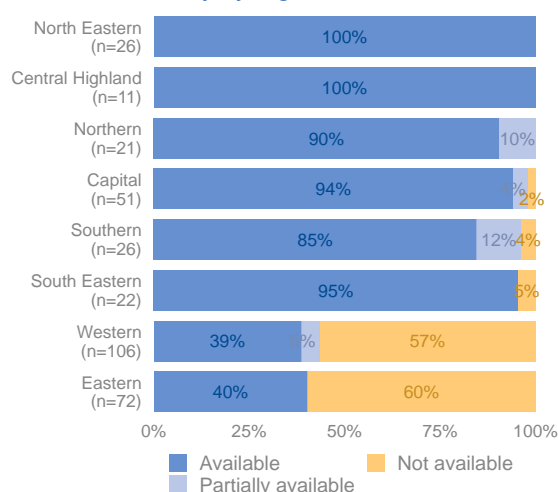


### Map labels

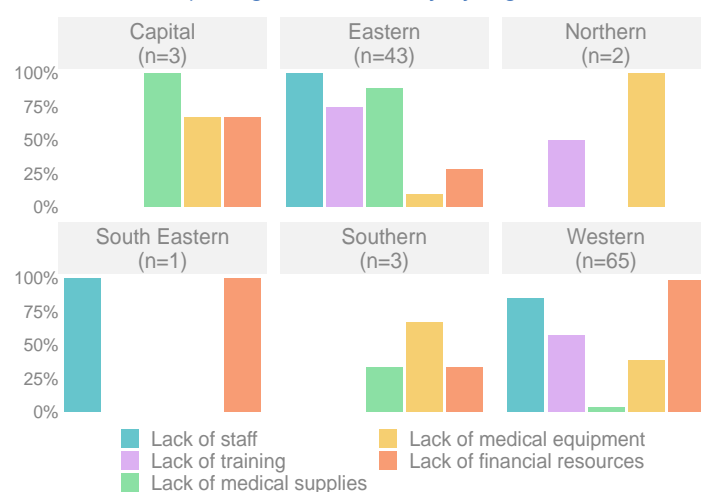
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



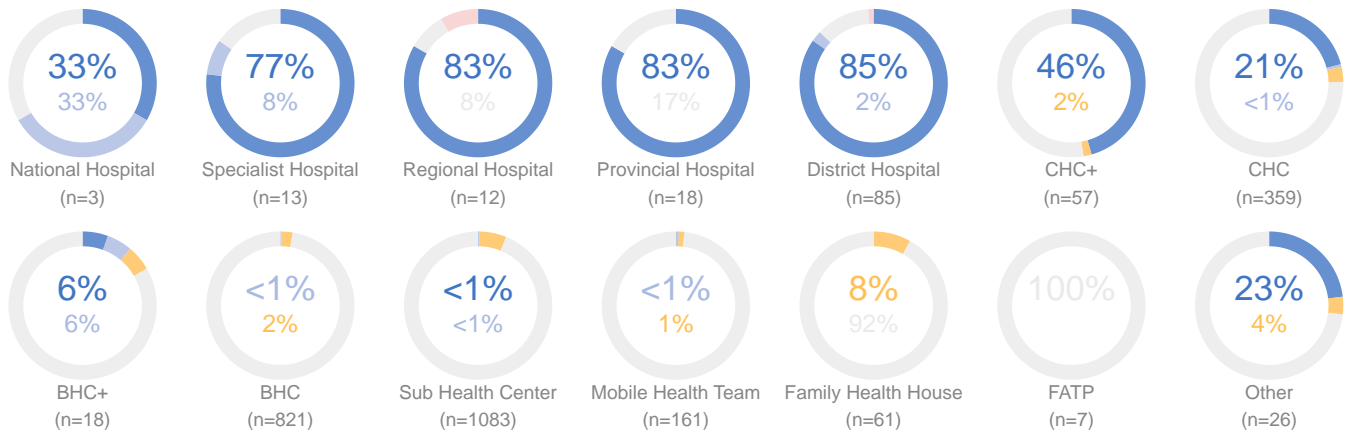
## Service availability by region\*



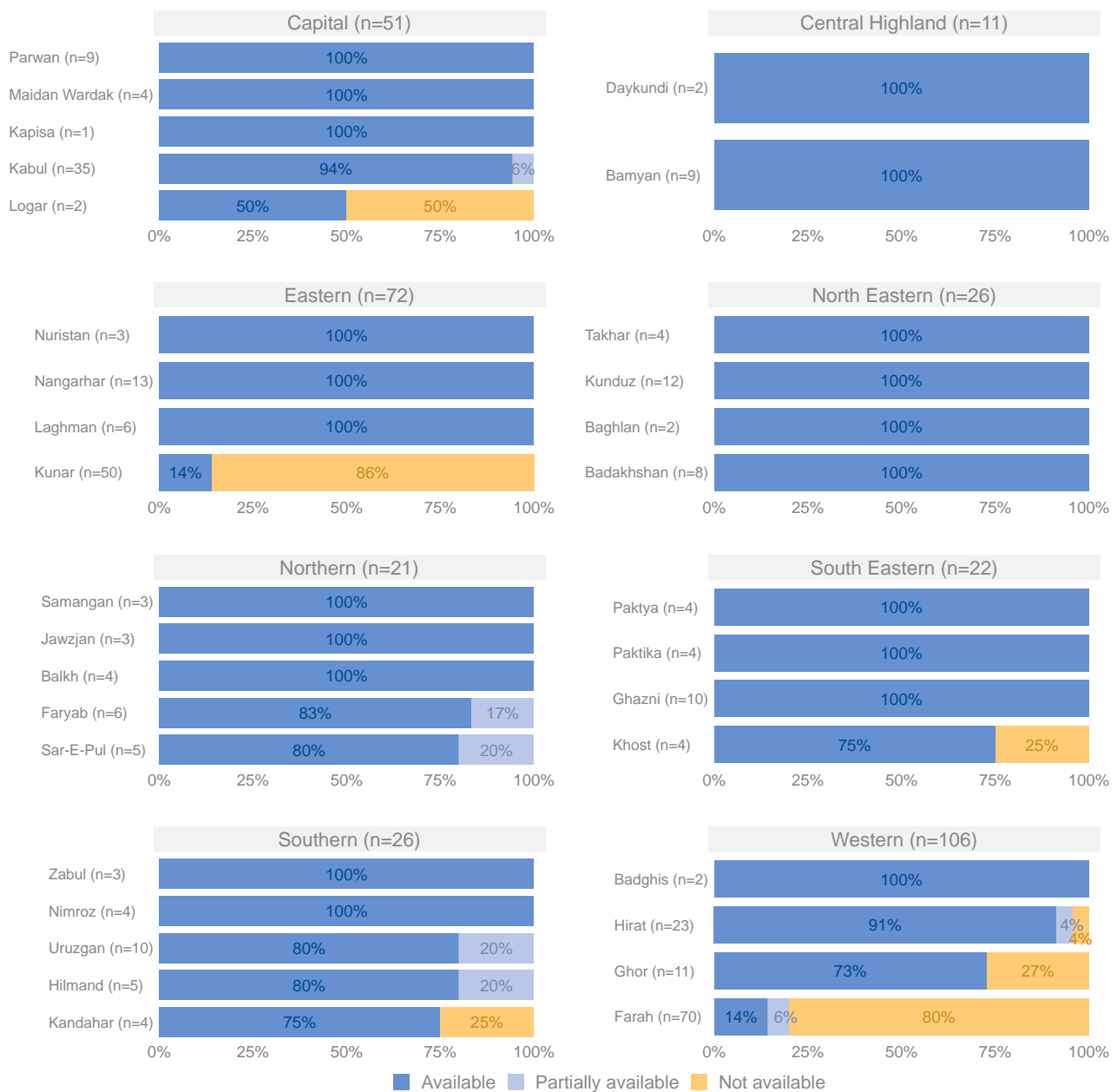
## Main barriers impeding service delivery by region



## Service availability by health facility type



## Service availability by province†

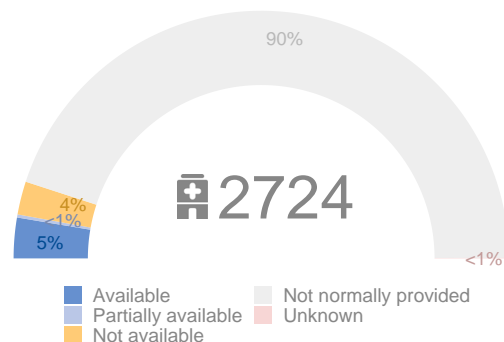


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

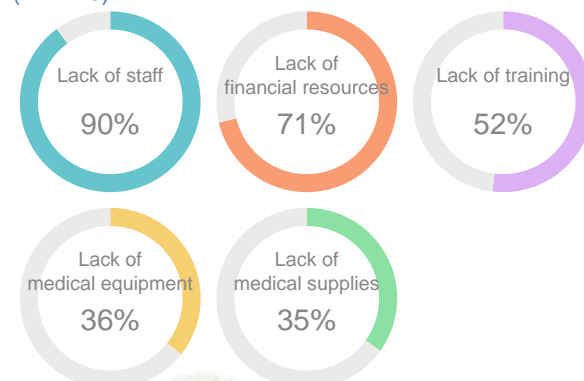


## 20 INPATIENT BED CAPACITY

### Service availability

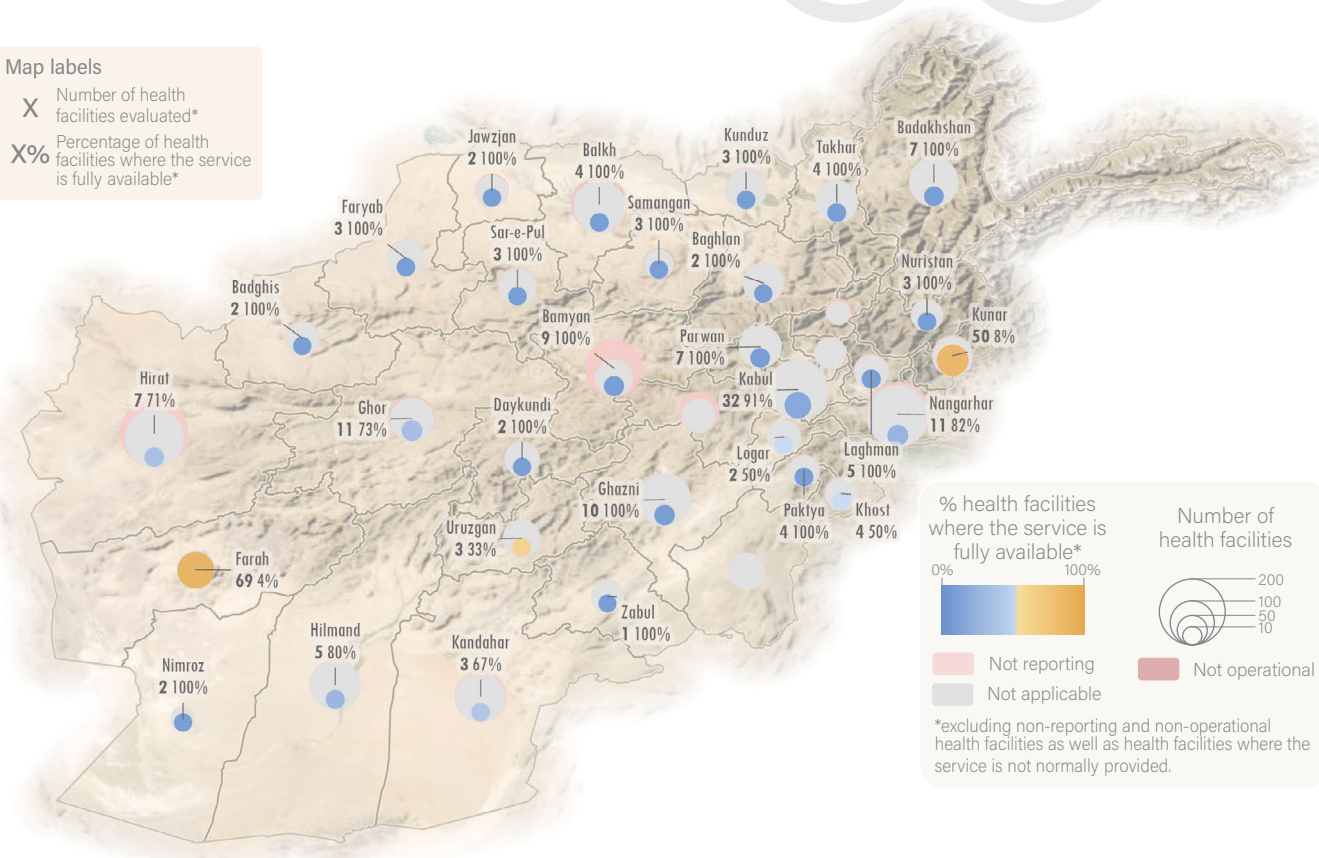


### Main barriers impeding service delivery (n = 129)

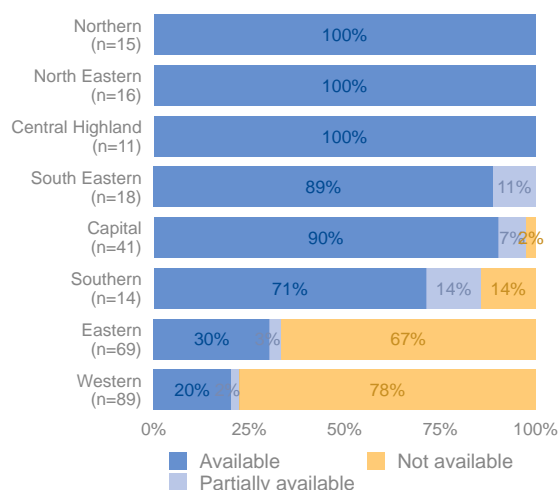


#### Map labels

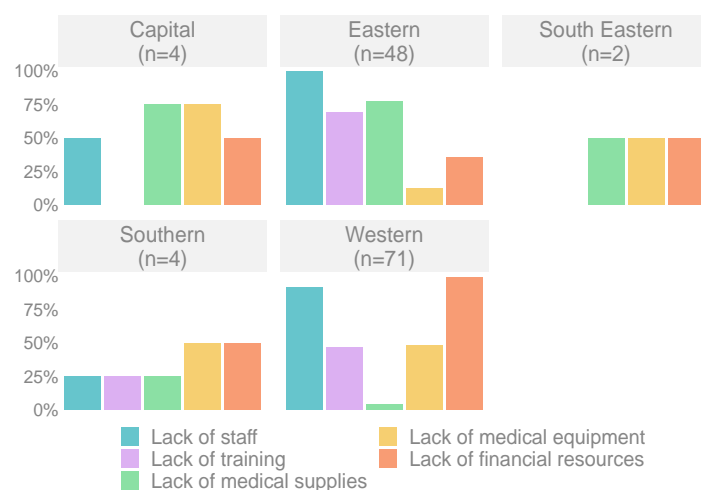
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



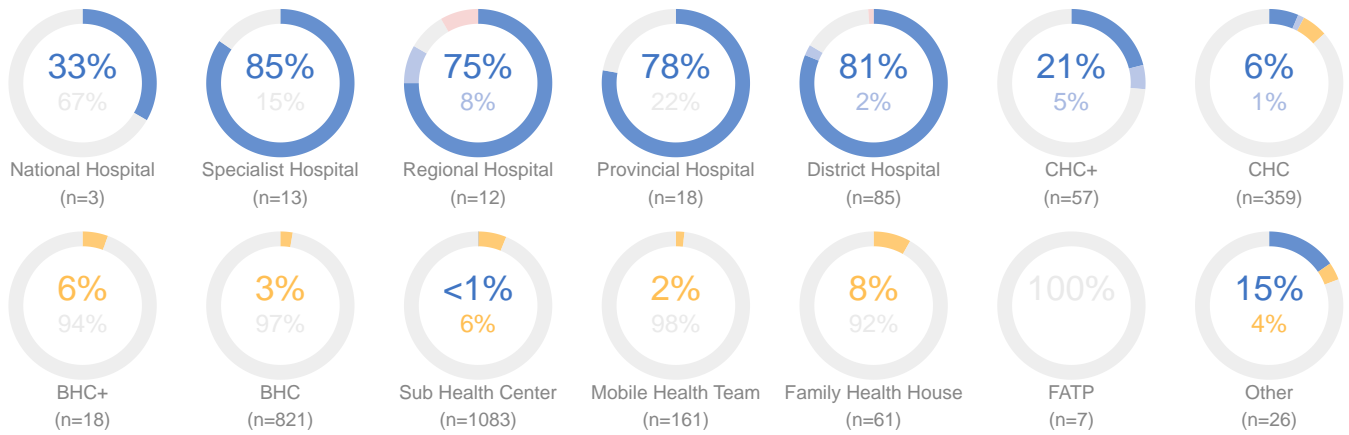
### Service availability by region†



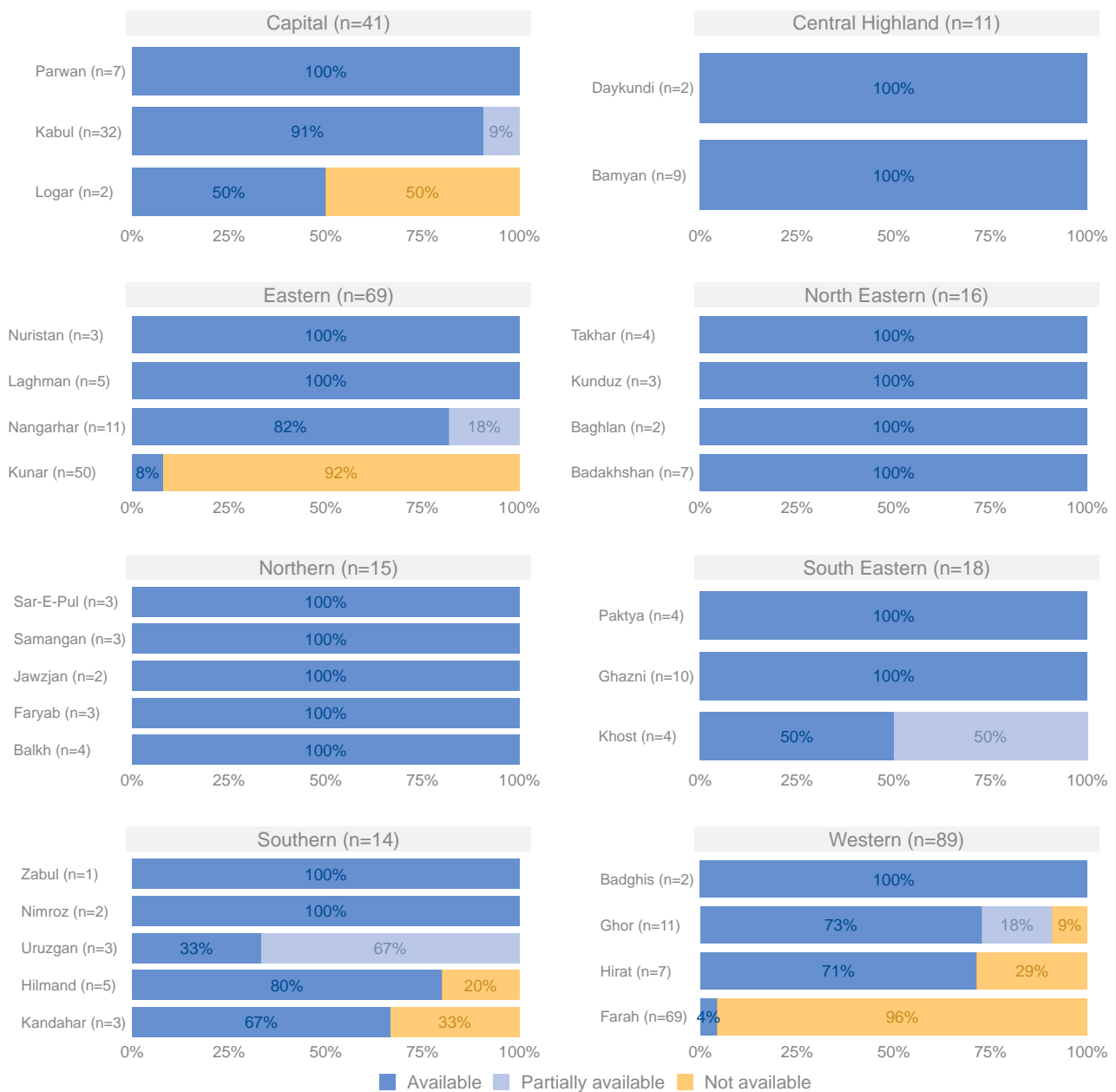
### Main barriers impeding service delivery by region



## Service availability by health facility type



## Service availability by province†

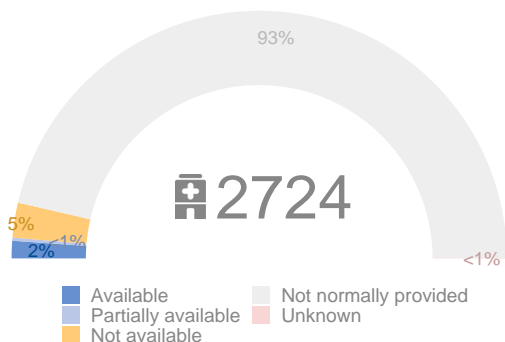


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

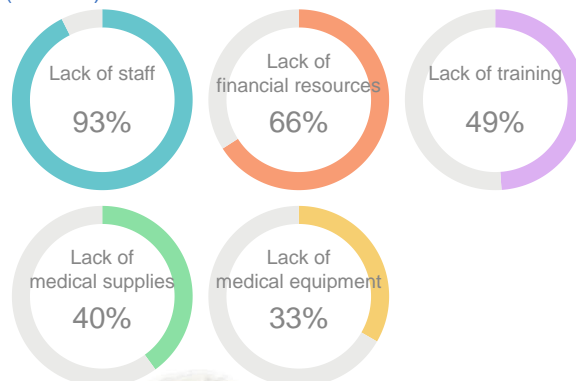


# 50 INPATIENT BED CAPACITY

## Service availability

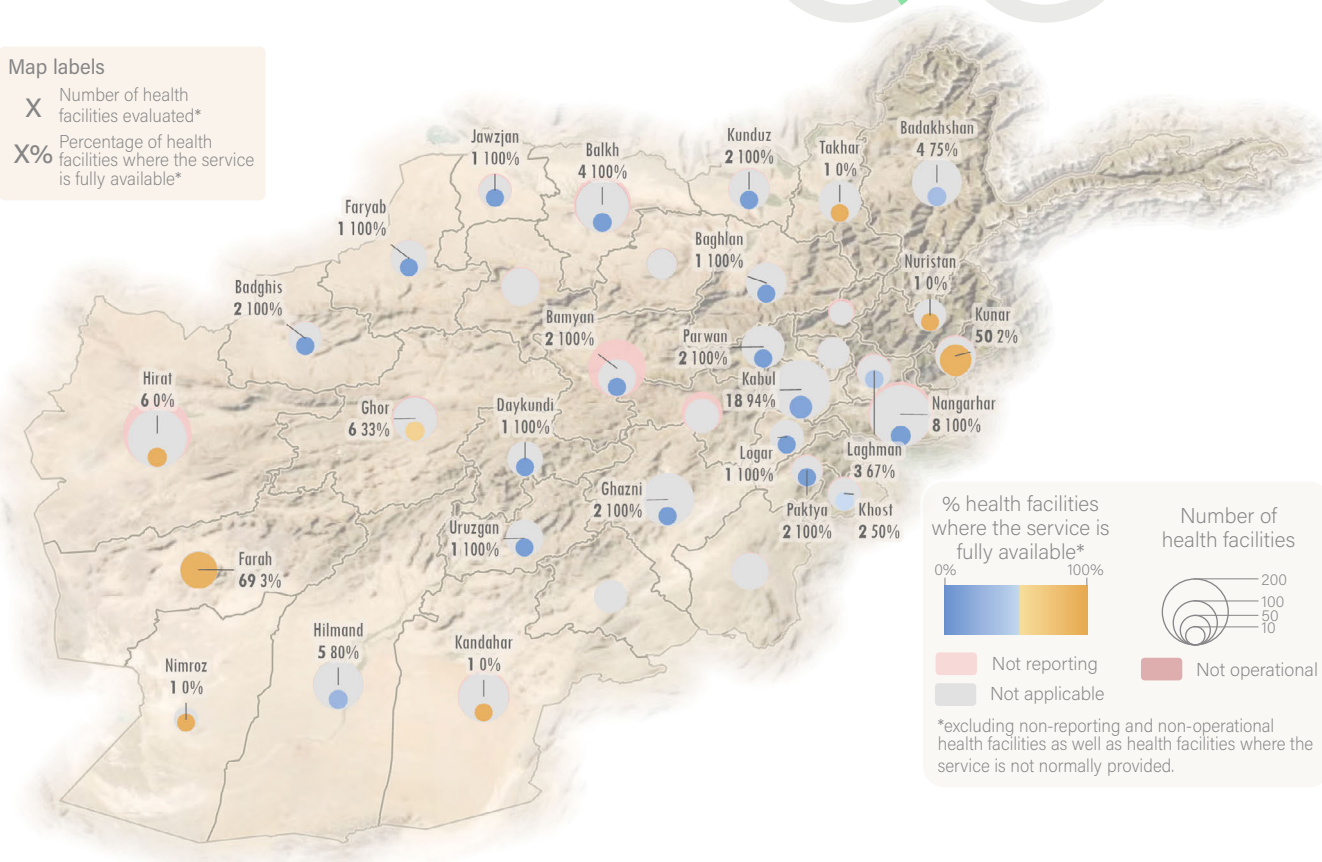


## Main barriers impeding service delivery (n = 135)

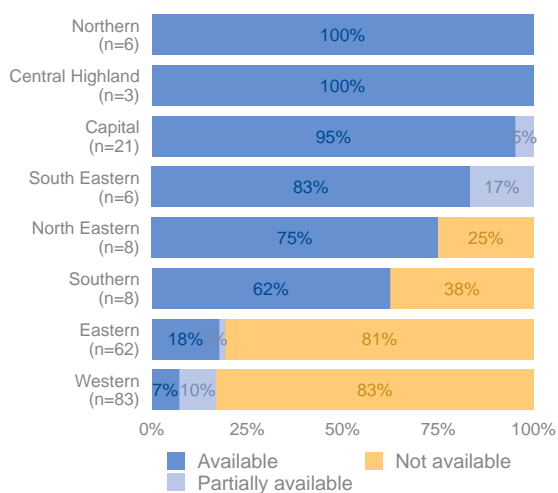


### Map labels

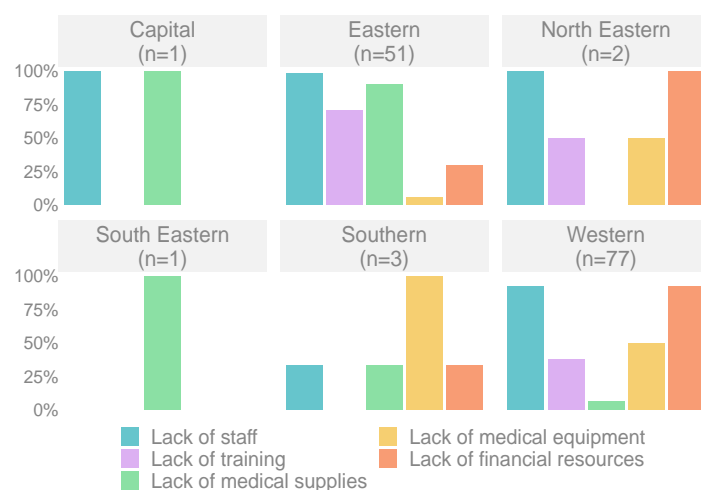
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



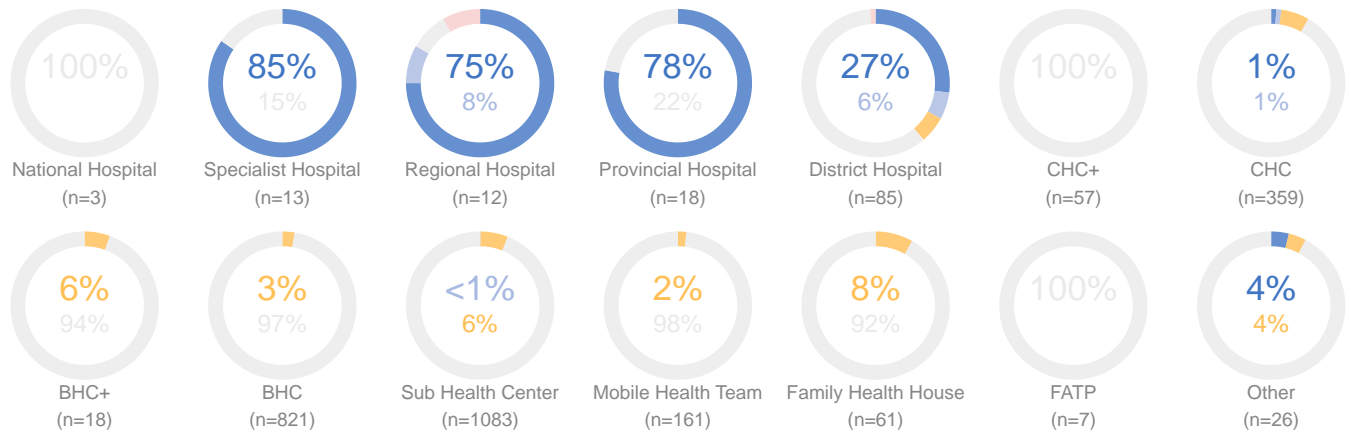
## Service availability by region†



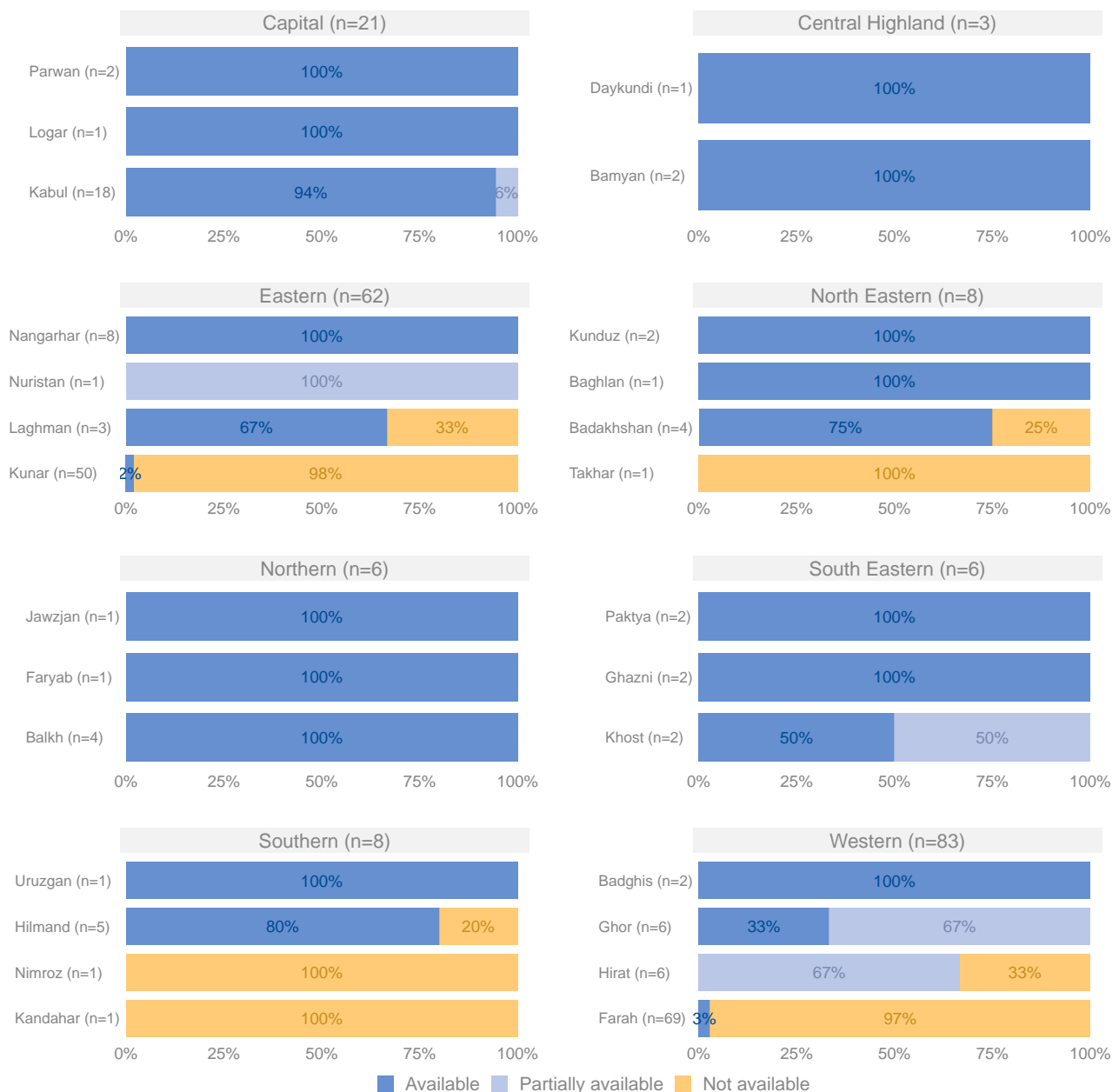
## Main barriers impeding service delivery by region



### Service availability by health facility type



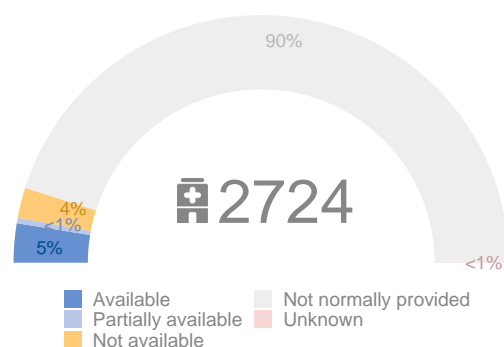
### Service availability by province†



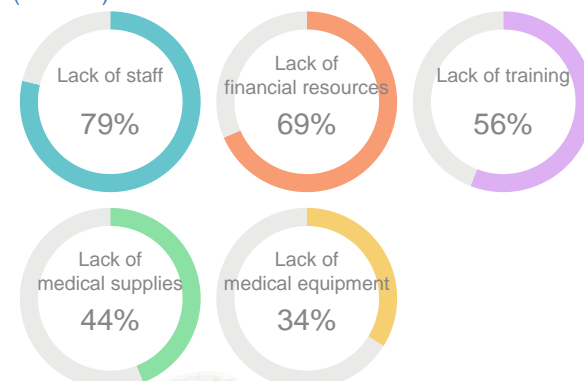
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# INPATIENT CRITICAL CARE MANAGEMENT

## Service availability

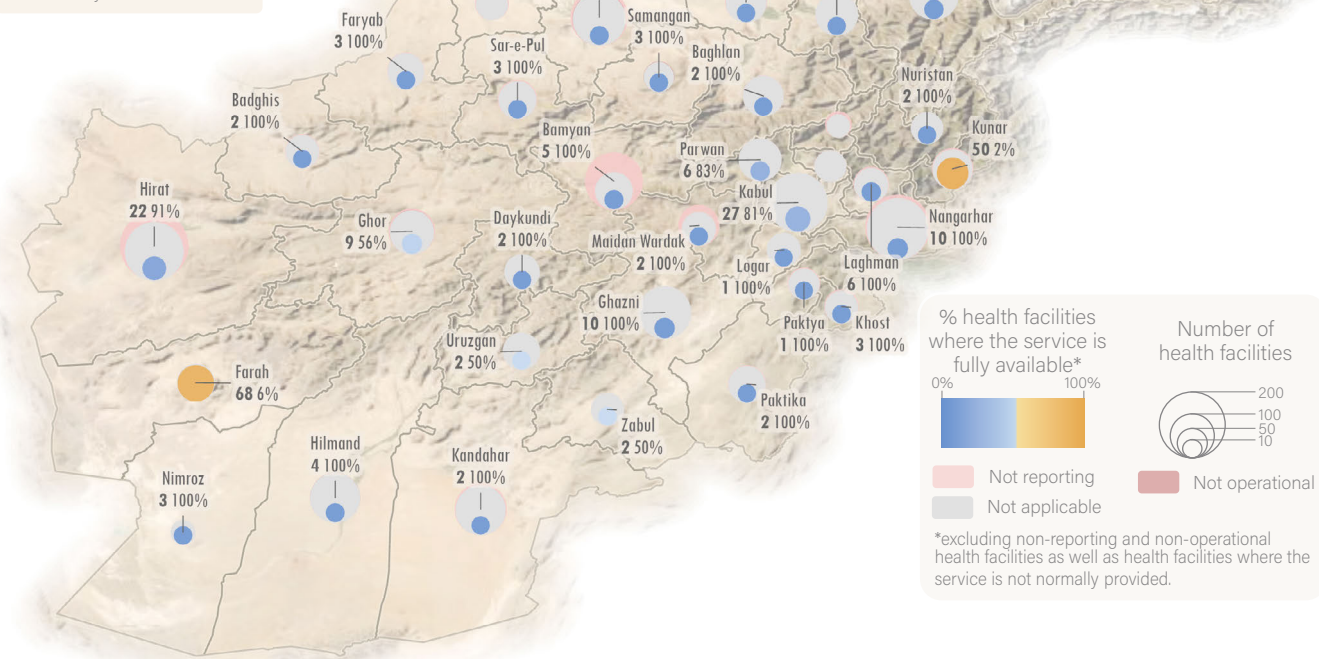


## Main barriers impeding service delivery (n = 127)

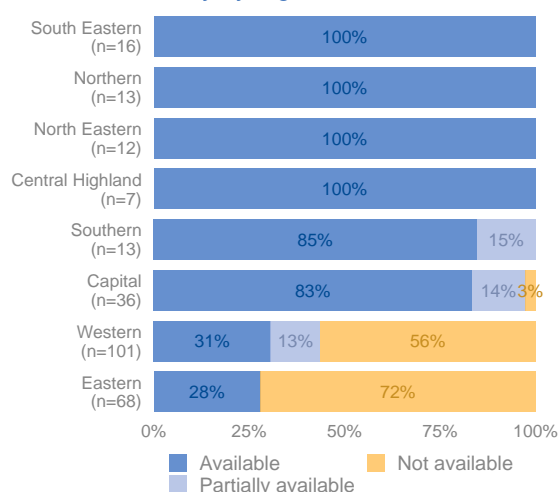


### Map labels

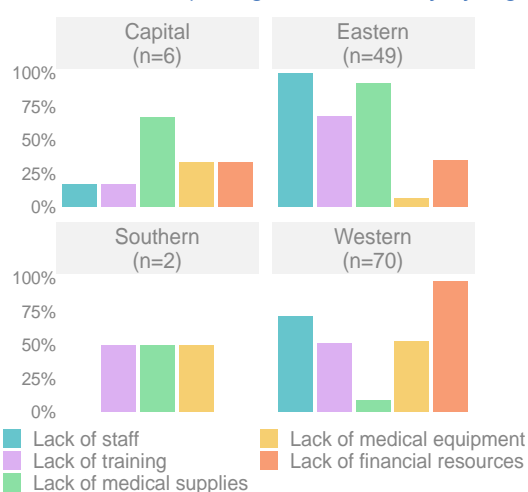
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



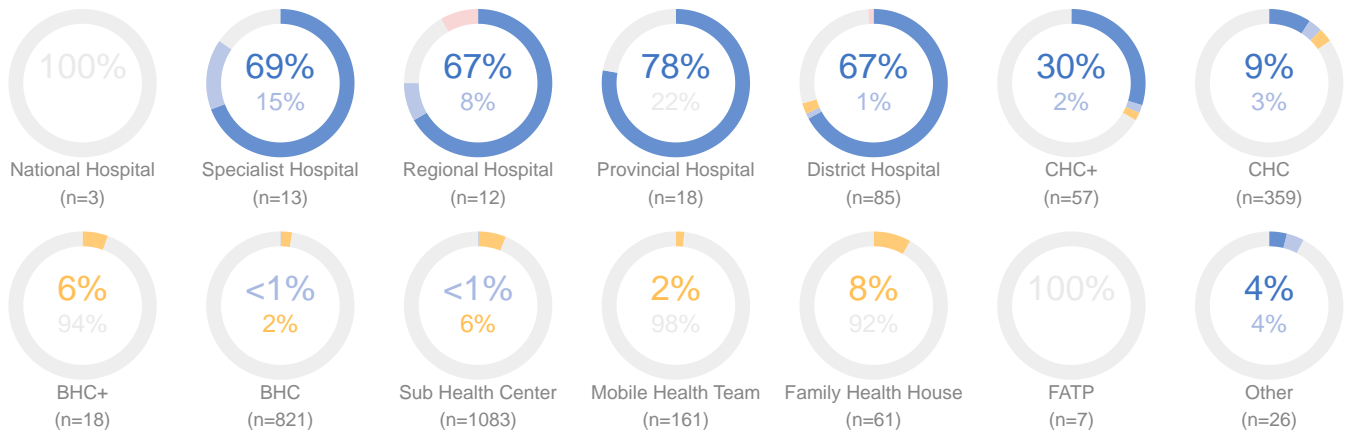
## Service availability by region†



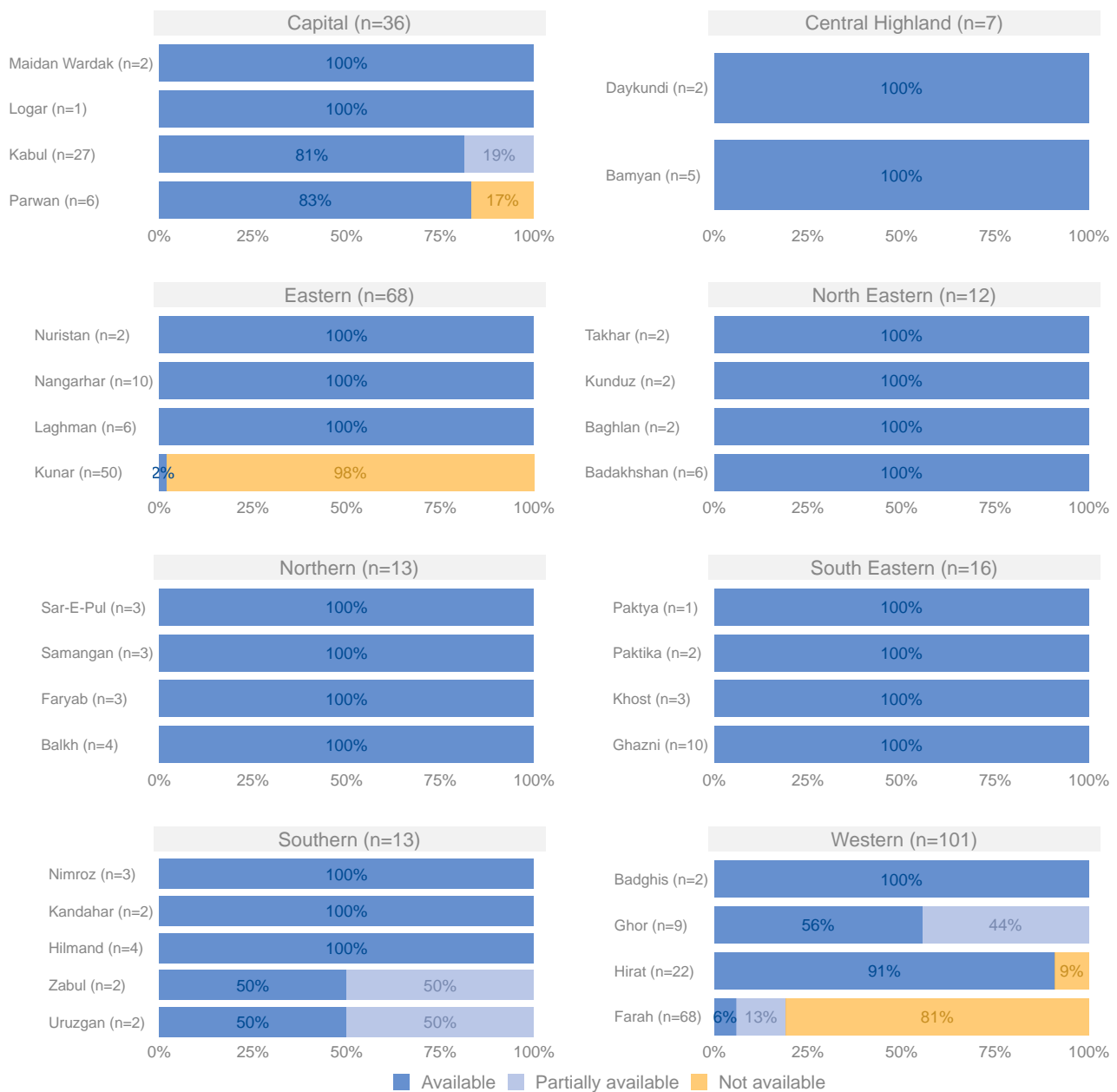
## Main barriers impeding service delivery by region



### Service availability by health facility type



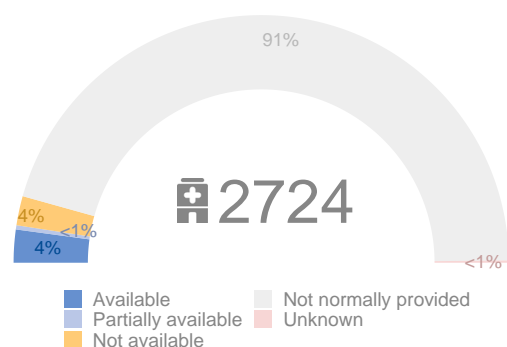
### Service availability by province†



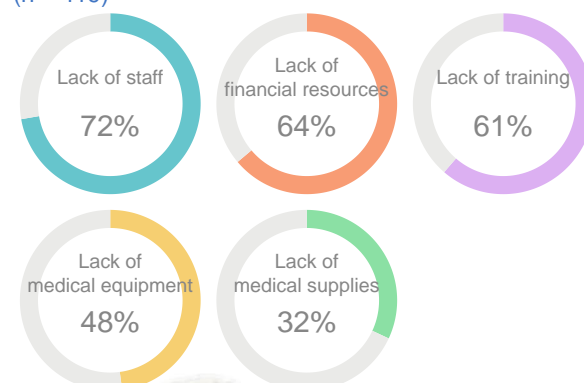
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# INTENSIVE CARE UNIT

## Service availability

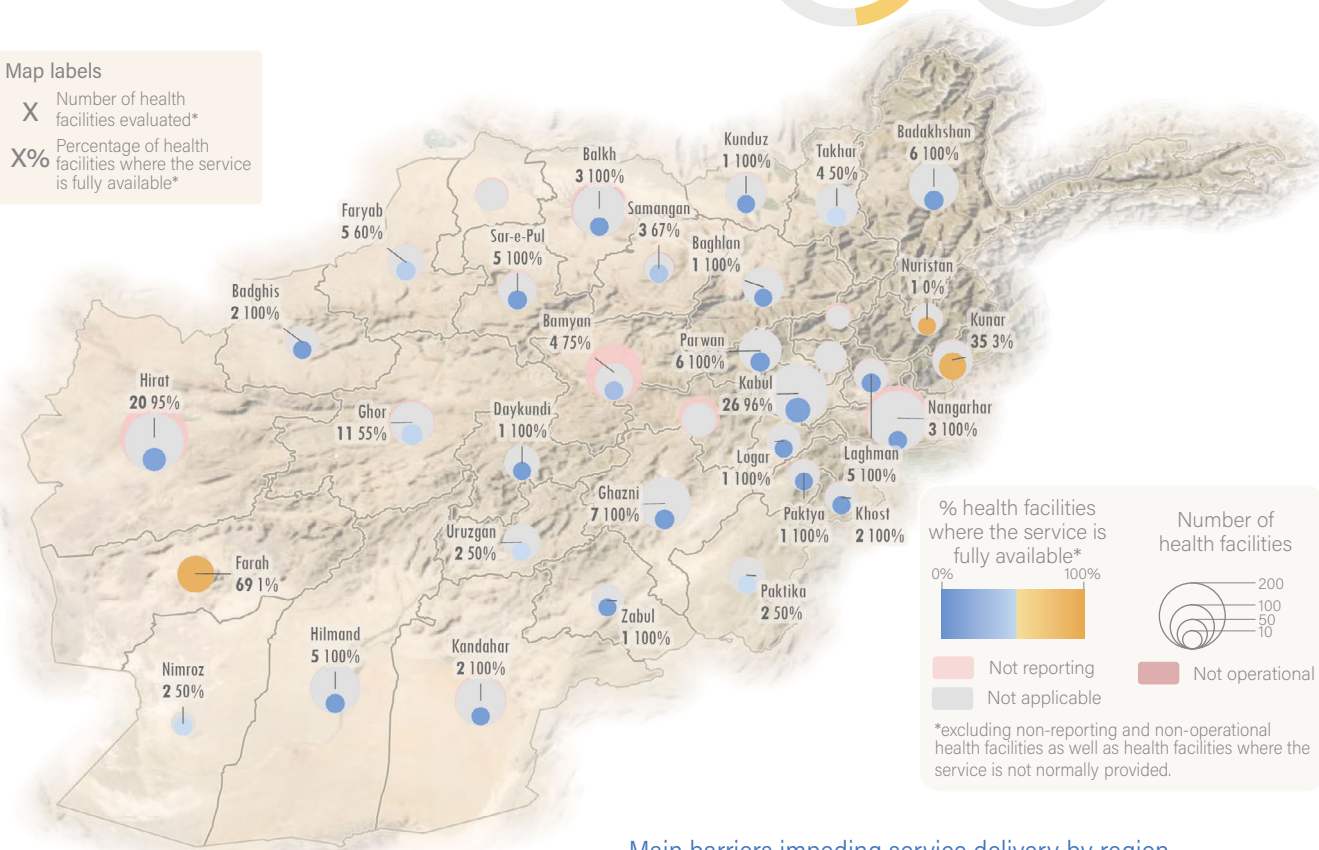


## Main barriers impeding service delivery (n = 119)

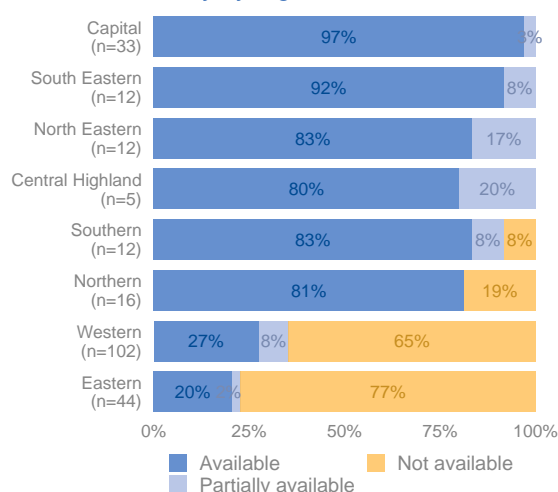


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Service availability by region†

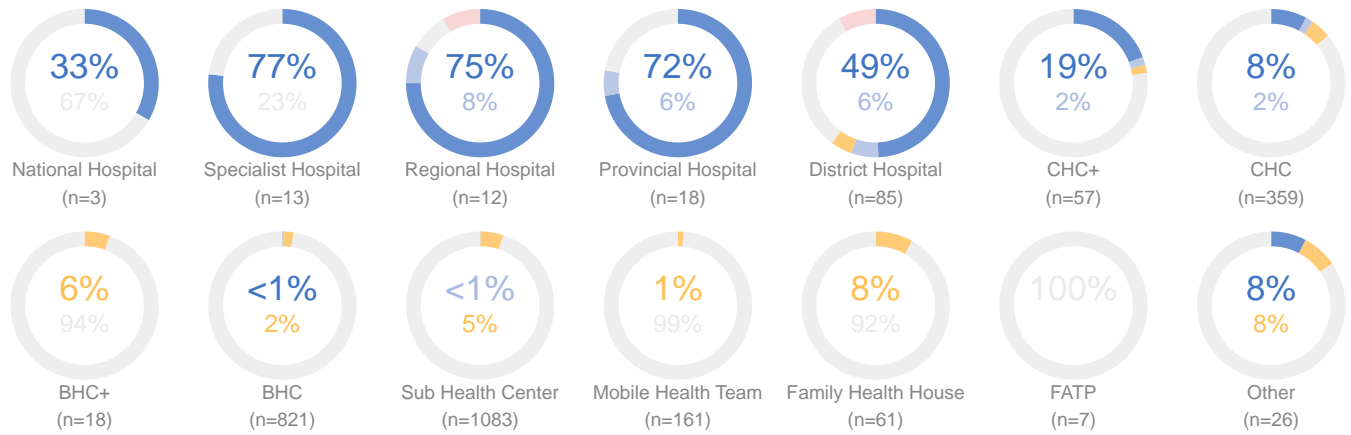


## Main barriers impeding service delivery by region

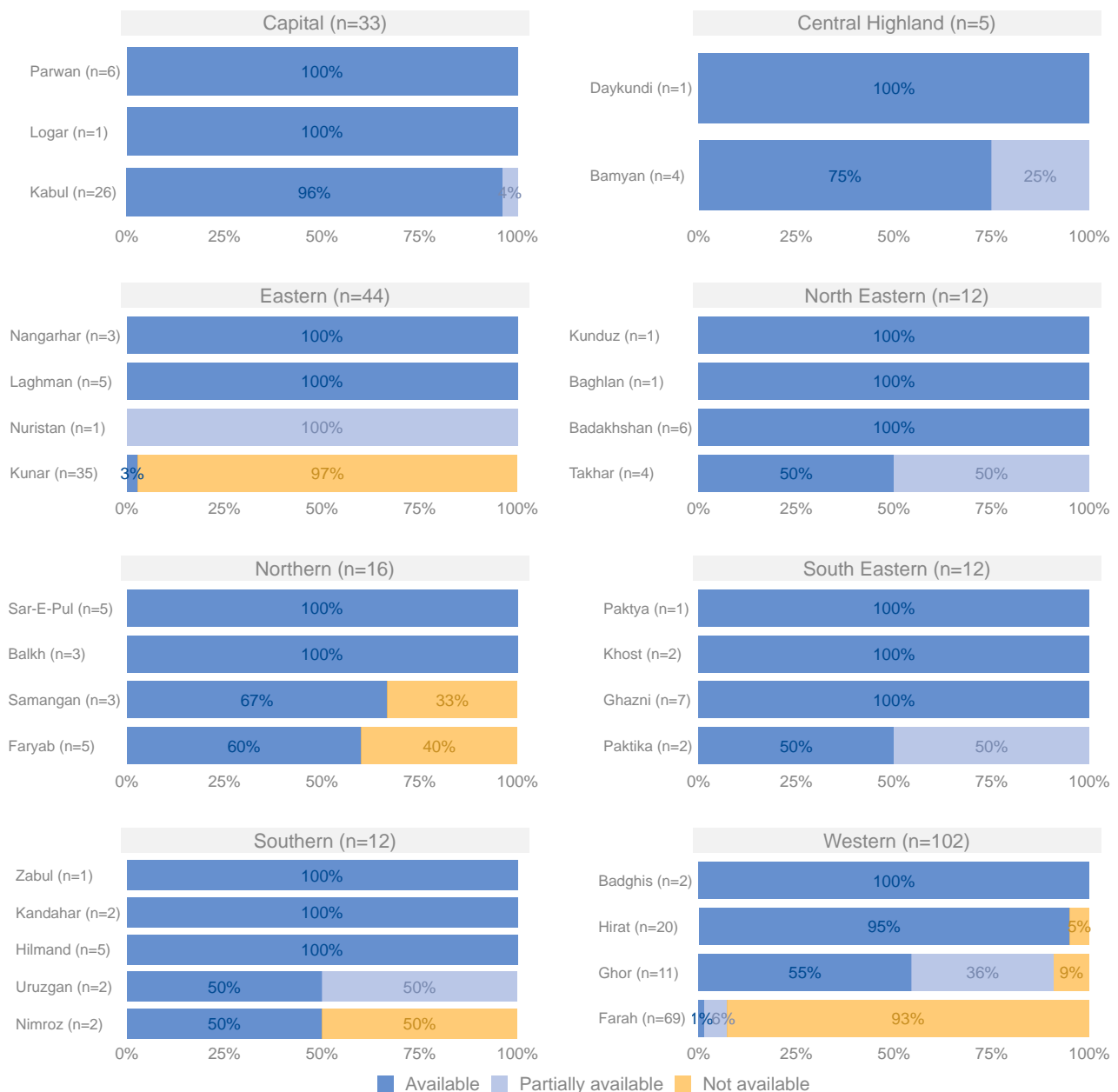




### Service availability by health facility type



### Service availability by province†

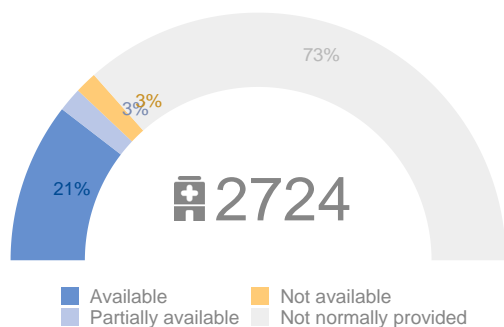


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

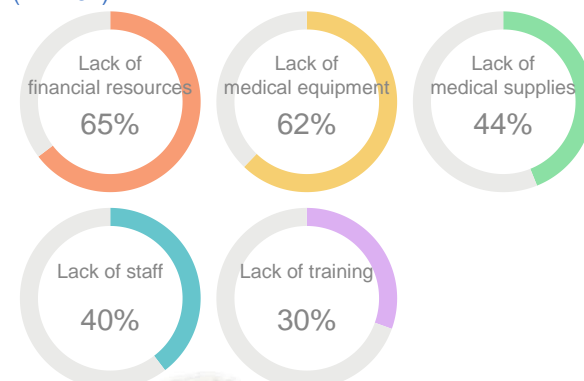


# BASIC LABORATORY

## Service availability

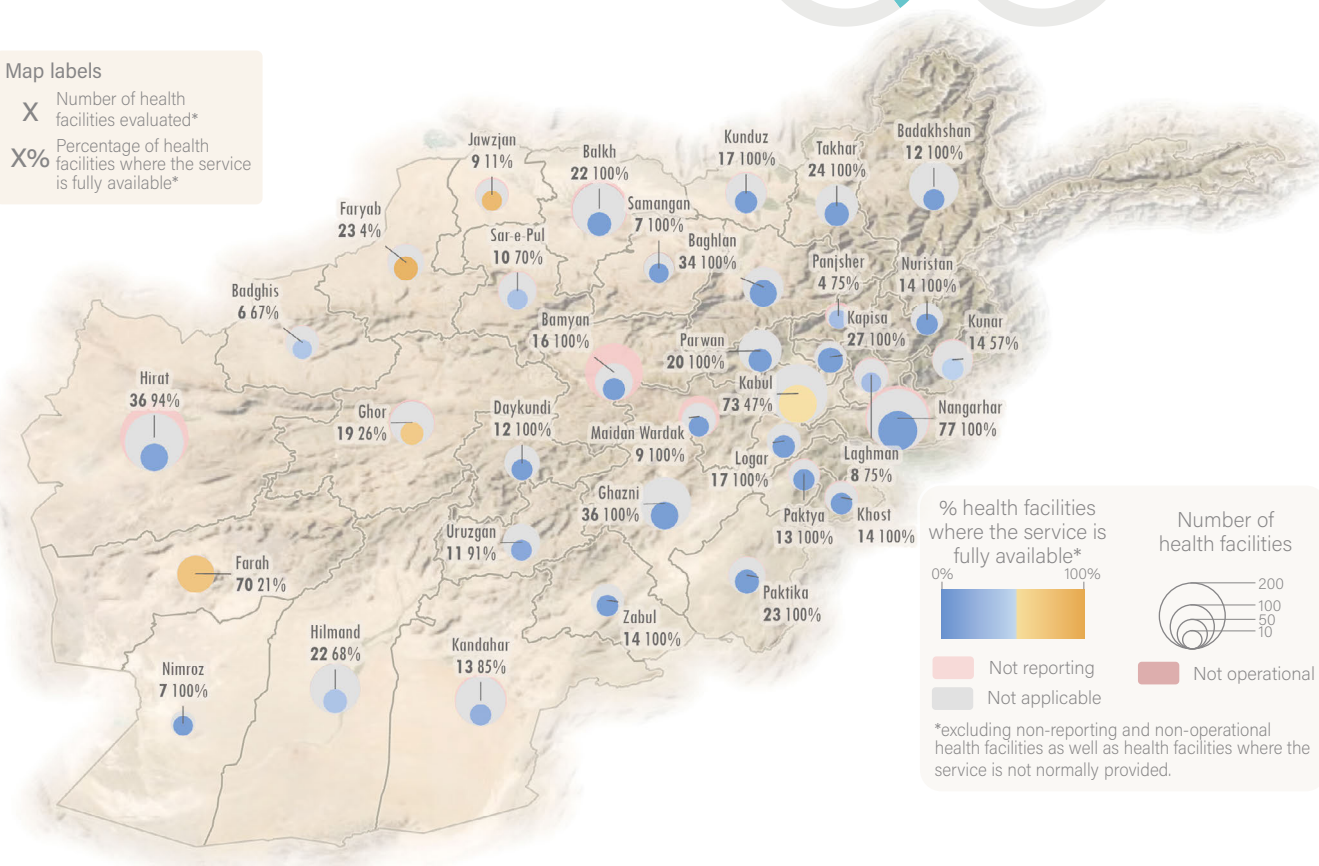


## Main barriers impeding service delivery (n = 164)

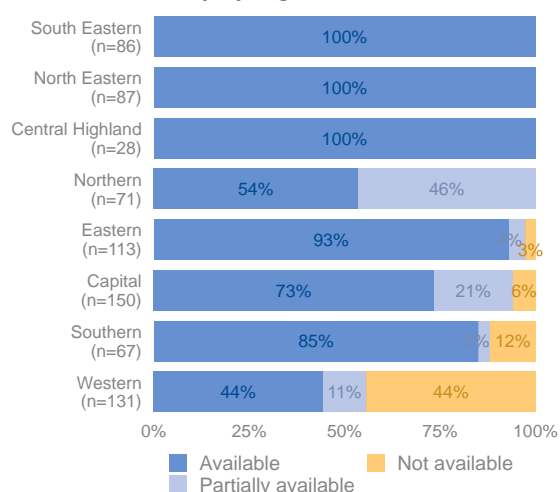


### Map labels

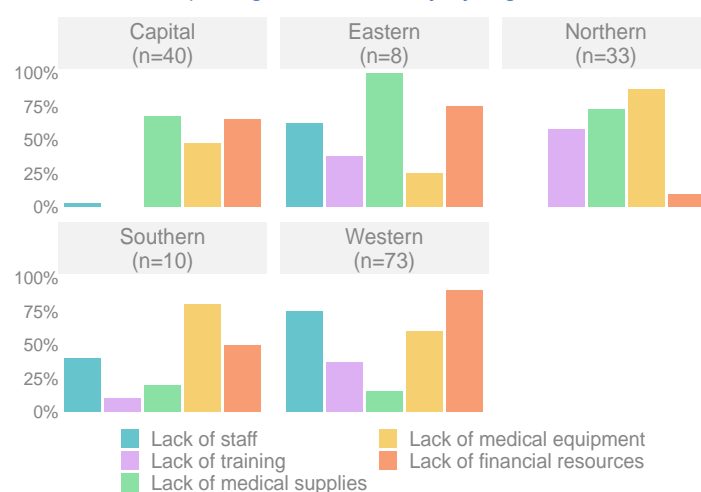
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



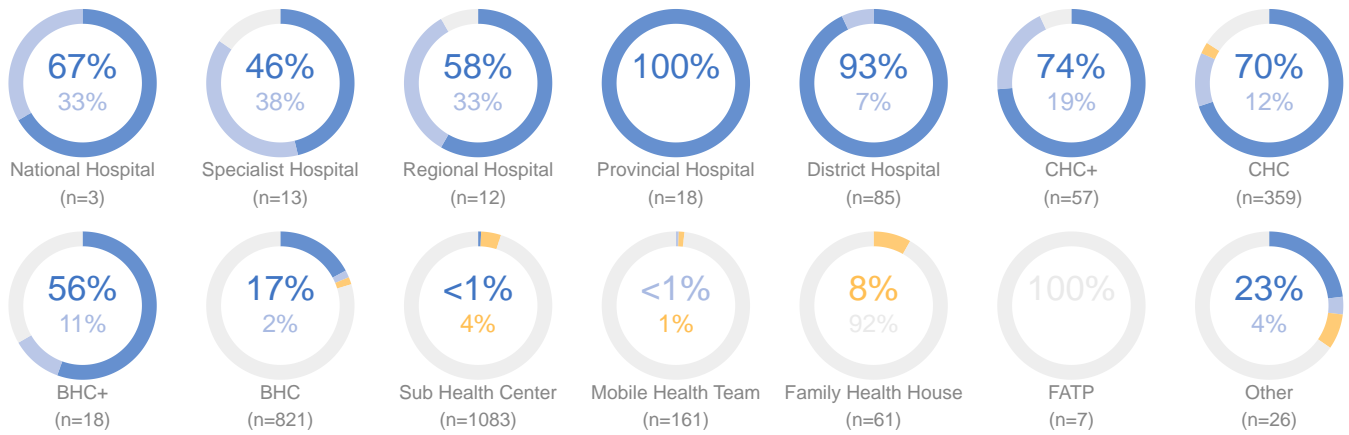
## Service availability by region†



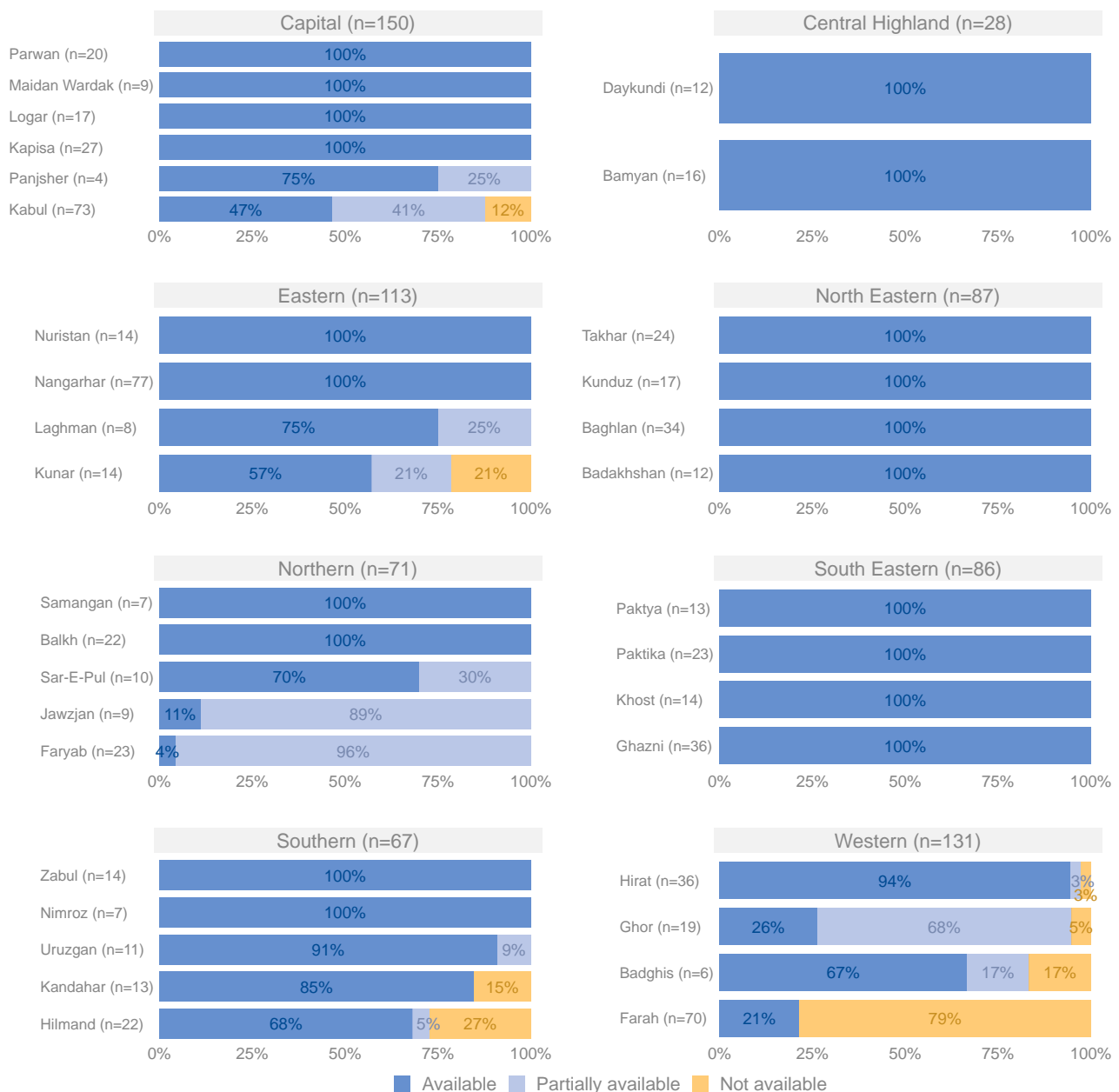
## Main barriers impeding service delivery by region



### Service availability by health facility type



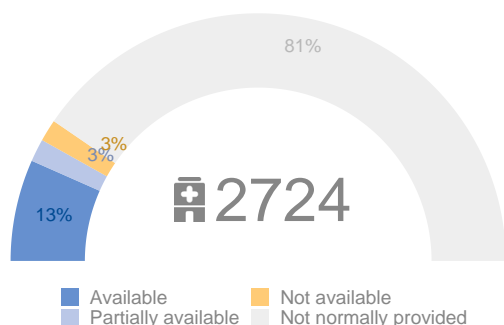
### Service availability by province†



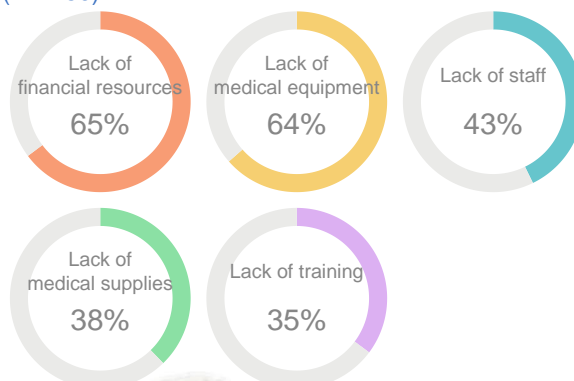
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# LABORATORY SERVICES SECONDARY LEVEL

## Service availability

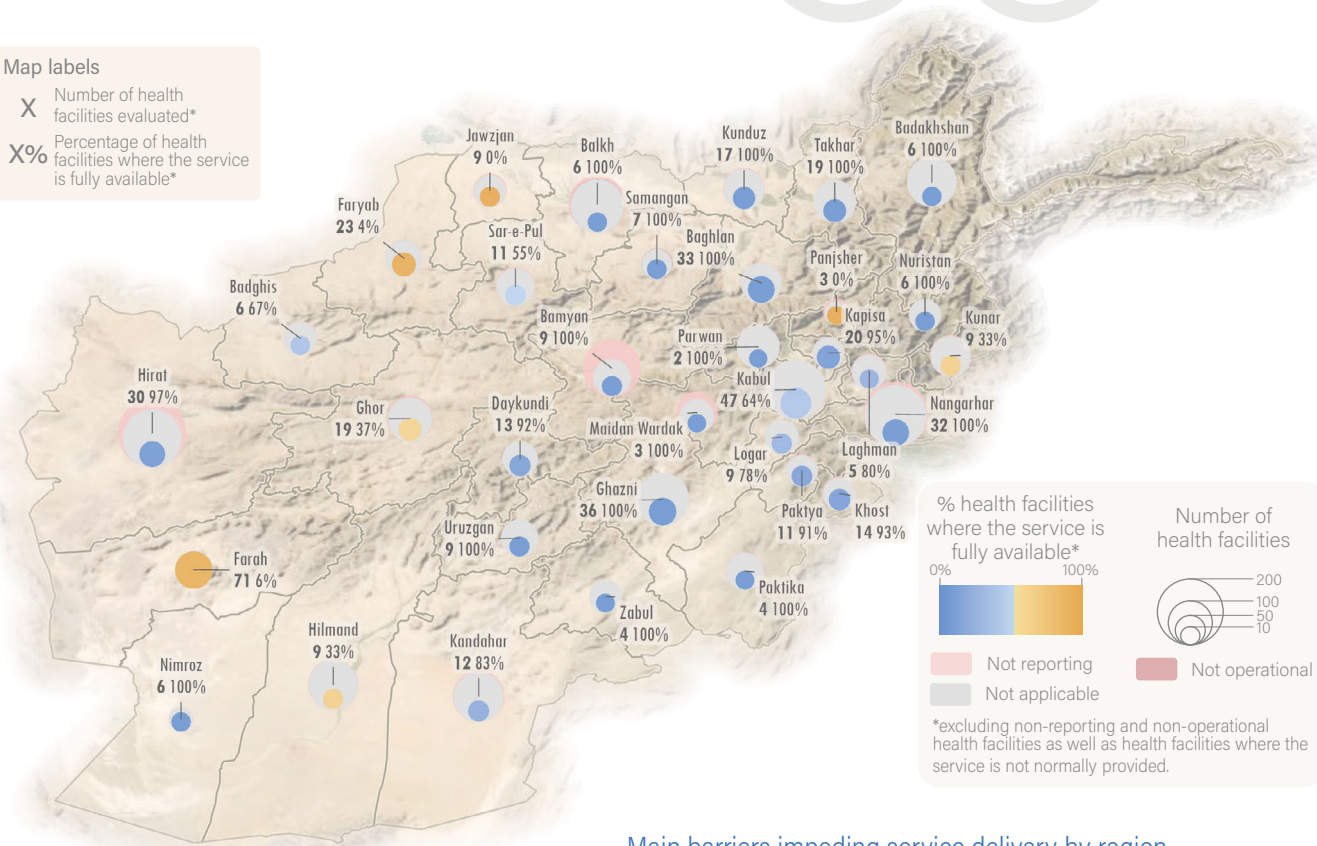


## Main barriers impeding service delivery (n = 159)



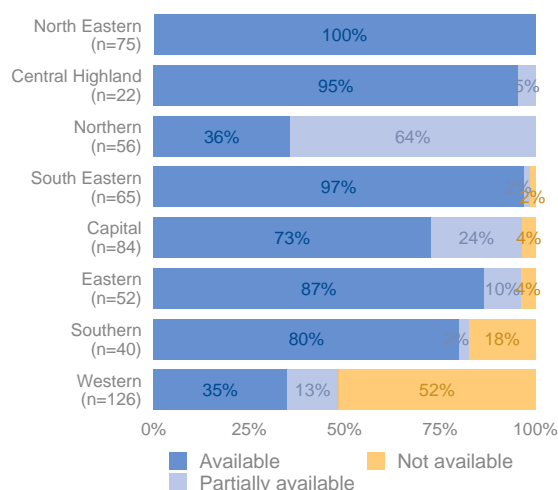
### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*

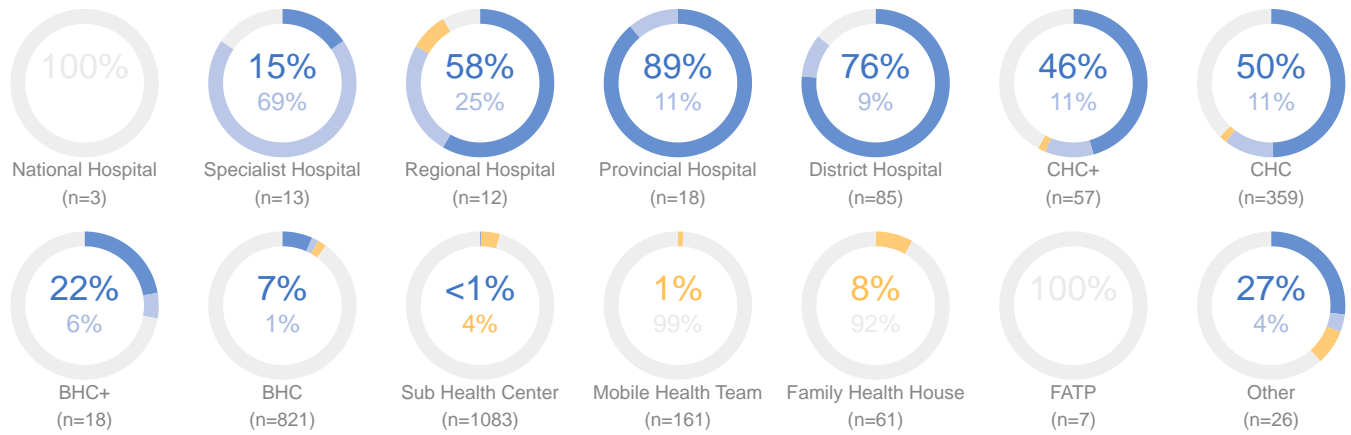


## Main barriers impeding service delivery by region

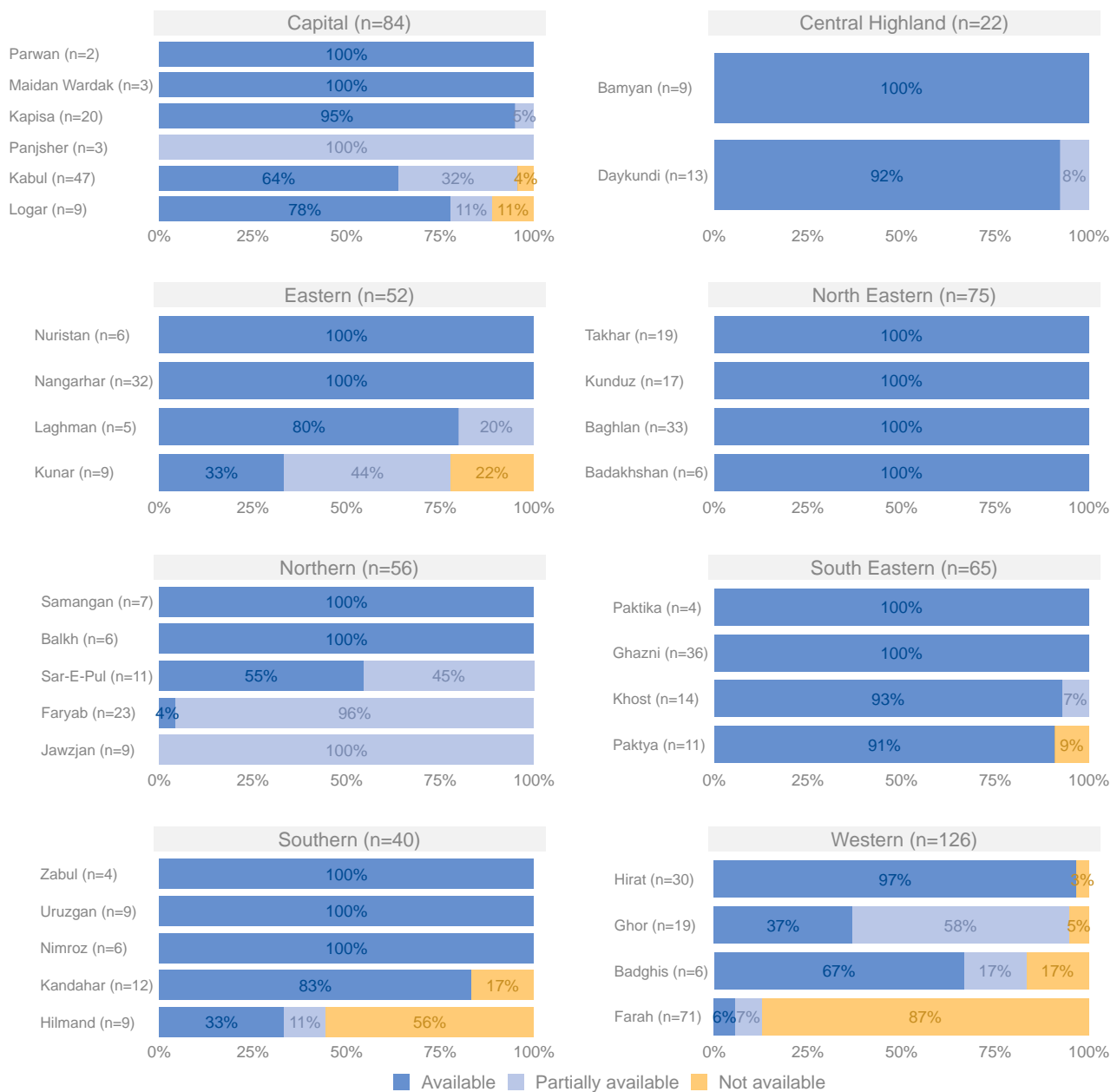
### Service availability by region\*



### Service availability by health facility type



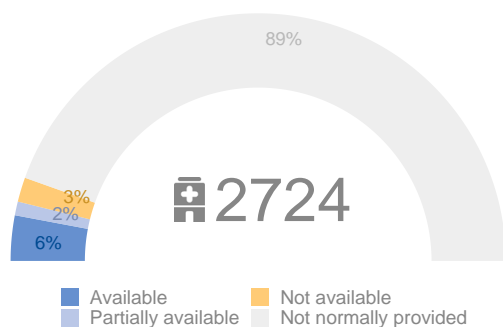
### Service availability by province†



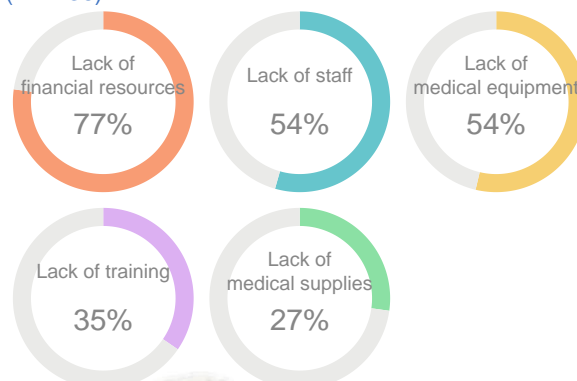
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# LABORATORY SERVICES TERTIARY LEVEL

## Service availability

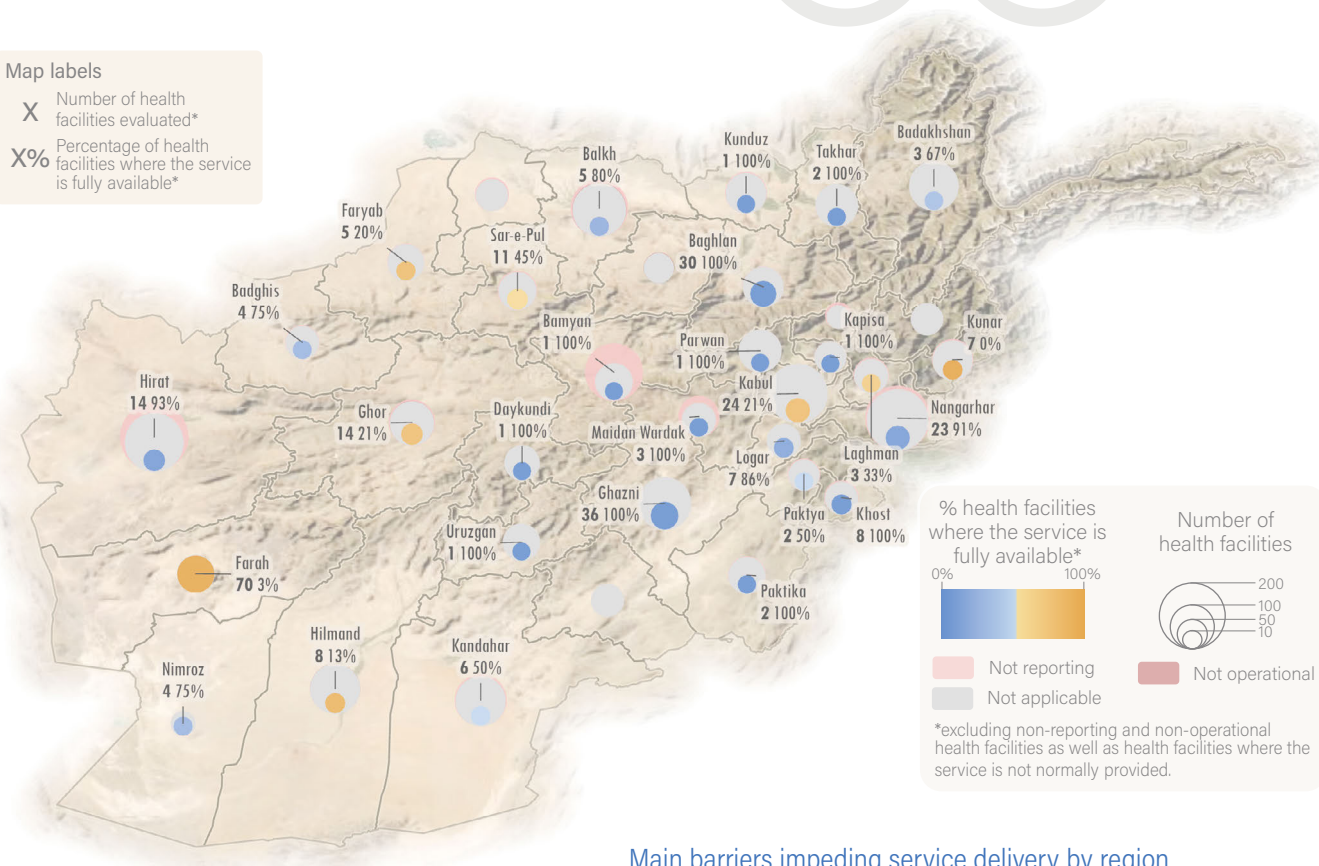


## Main barriers impeding service delivery (n = 136)

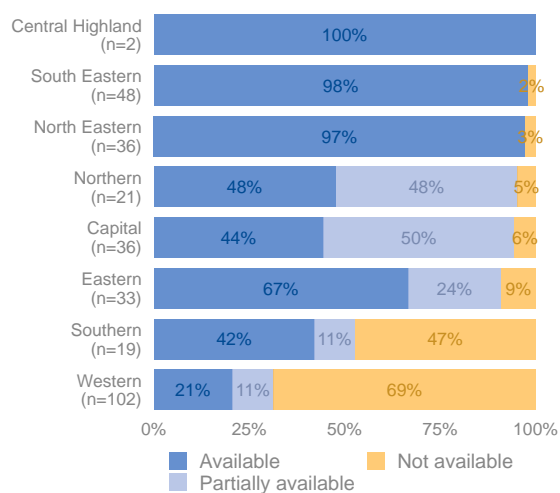


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Service availability by region†

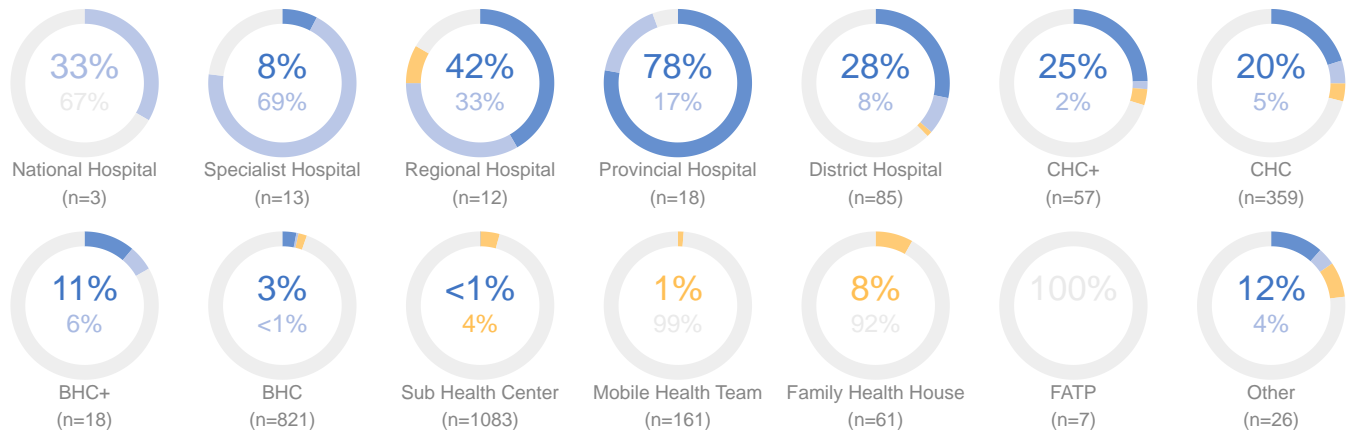


## Main barriers impeding service delivery by region

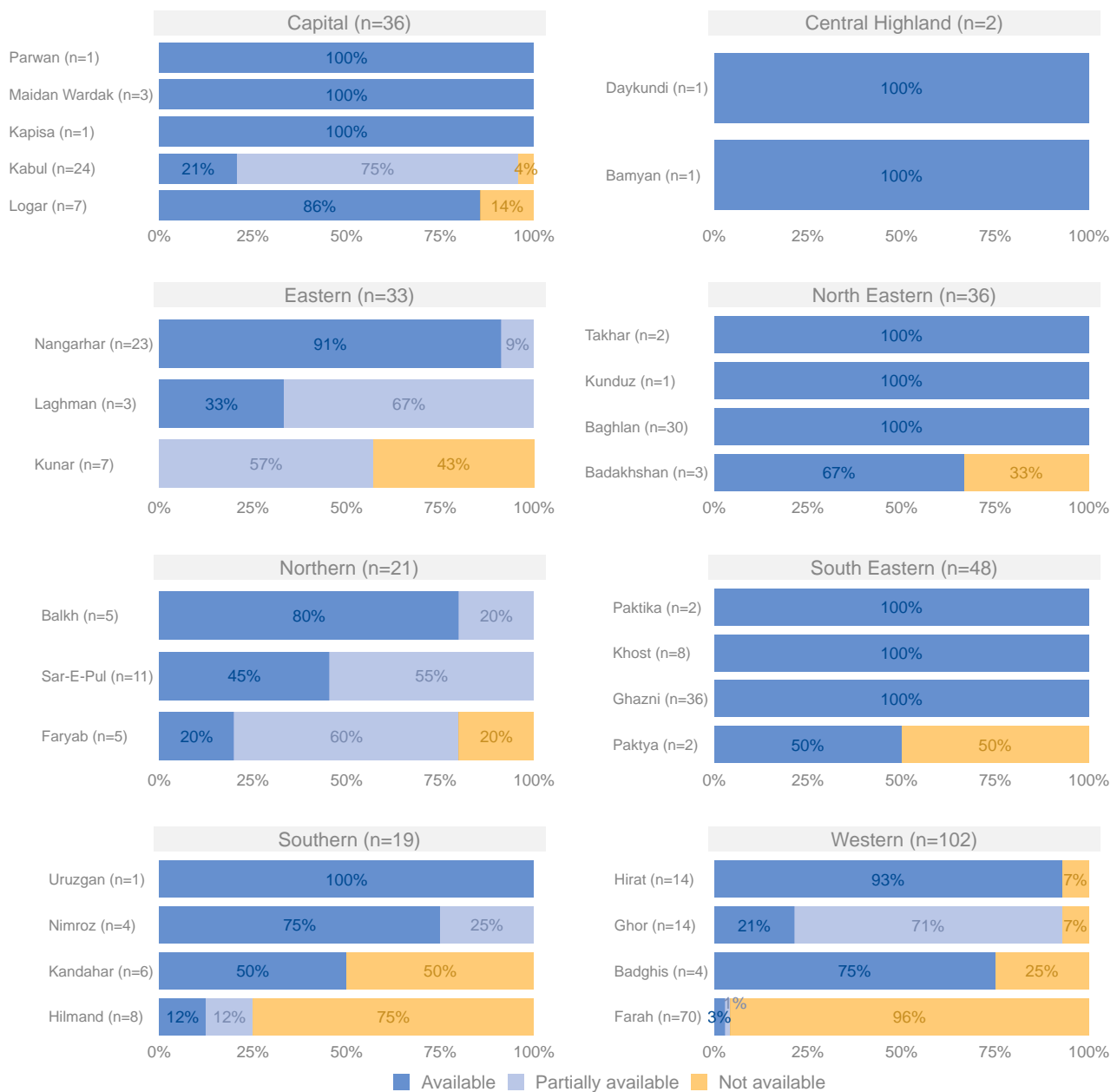




### Service availability by health facility type



### Service availability by province†

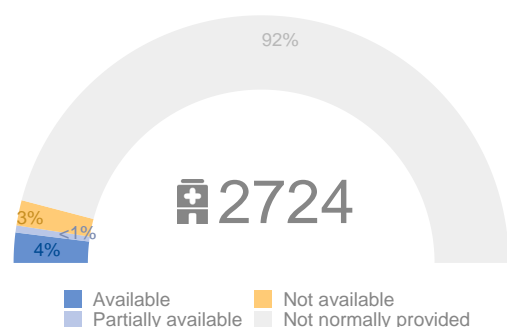


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

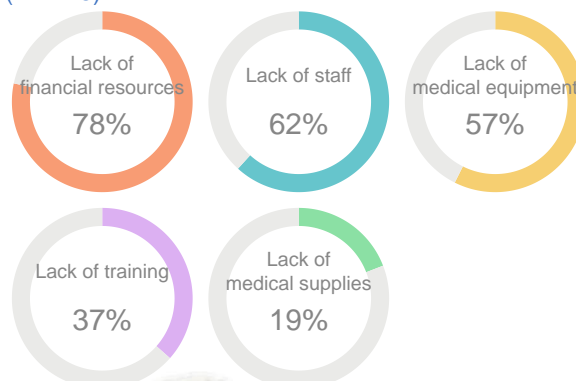


# BLOOD BANK SERVICES

## Service availability

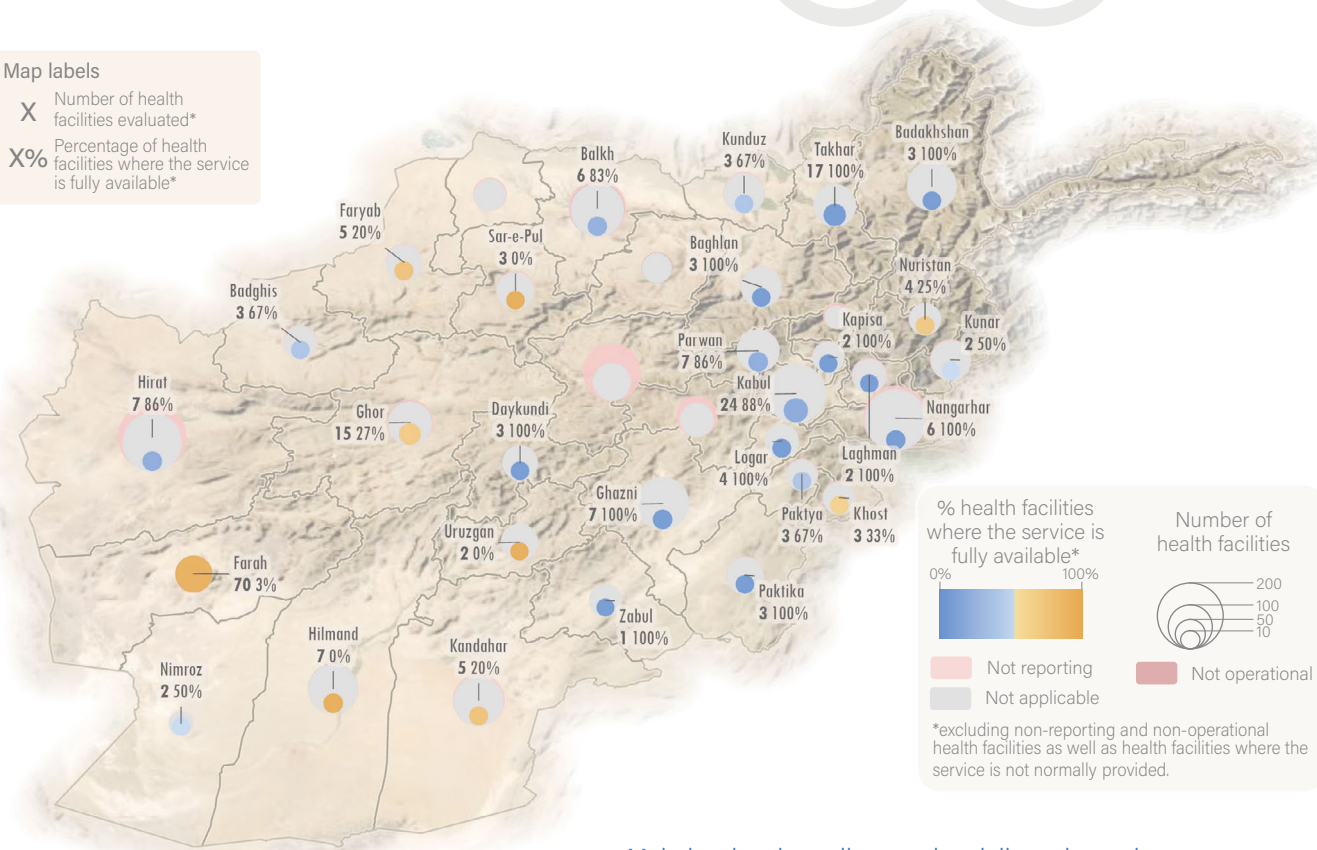


## Main barriers impeding service delivery (n = 115)

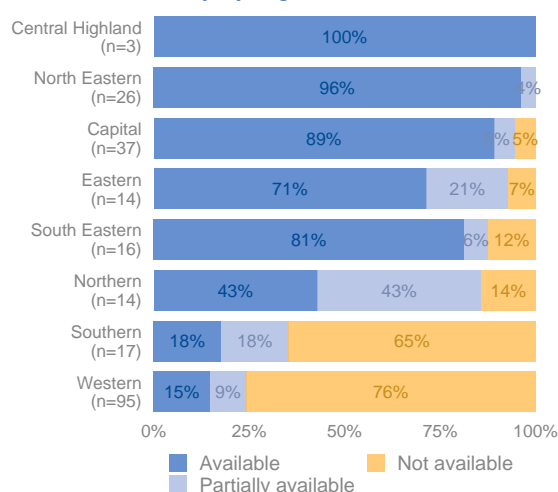


### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



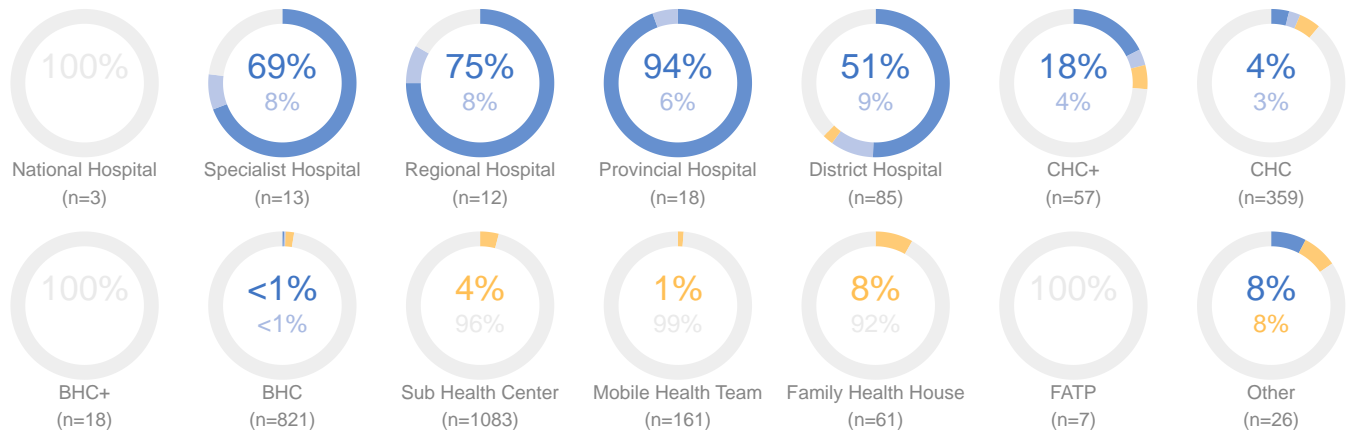
## Service availability by region\*



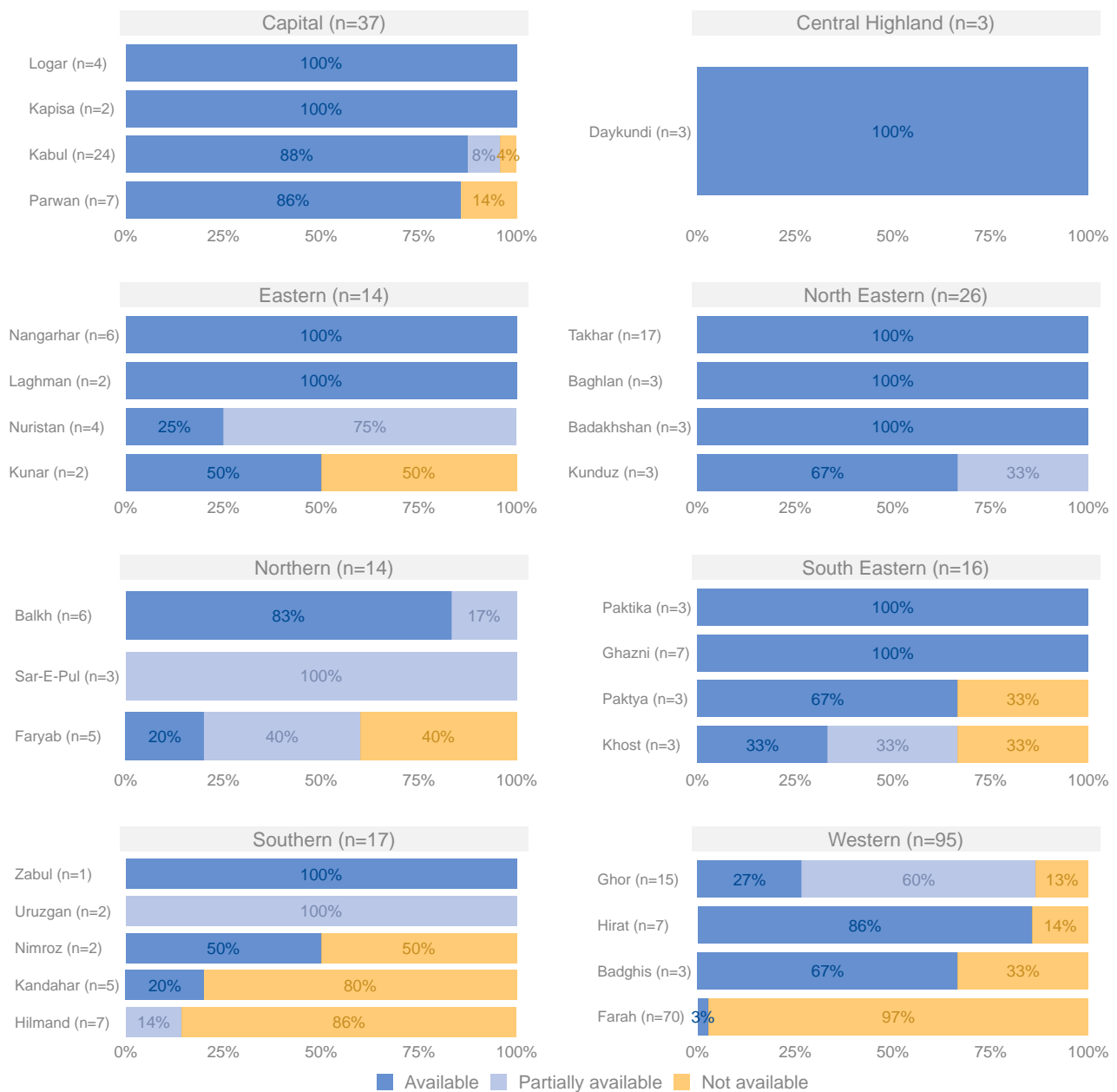
## Main barriers impeding service delivery by region



### Service availability by health facility type



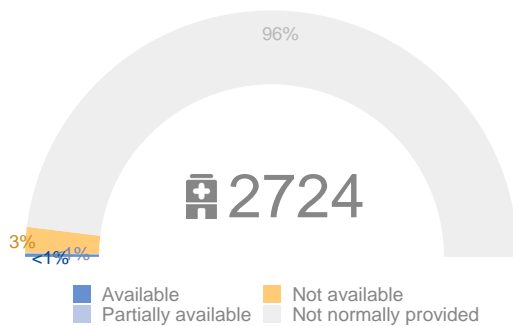
### Service availability by province†



† Chart excludes health facilities where the service is not normally provided or availability is unknown.

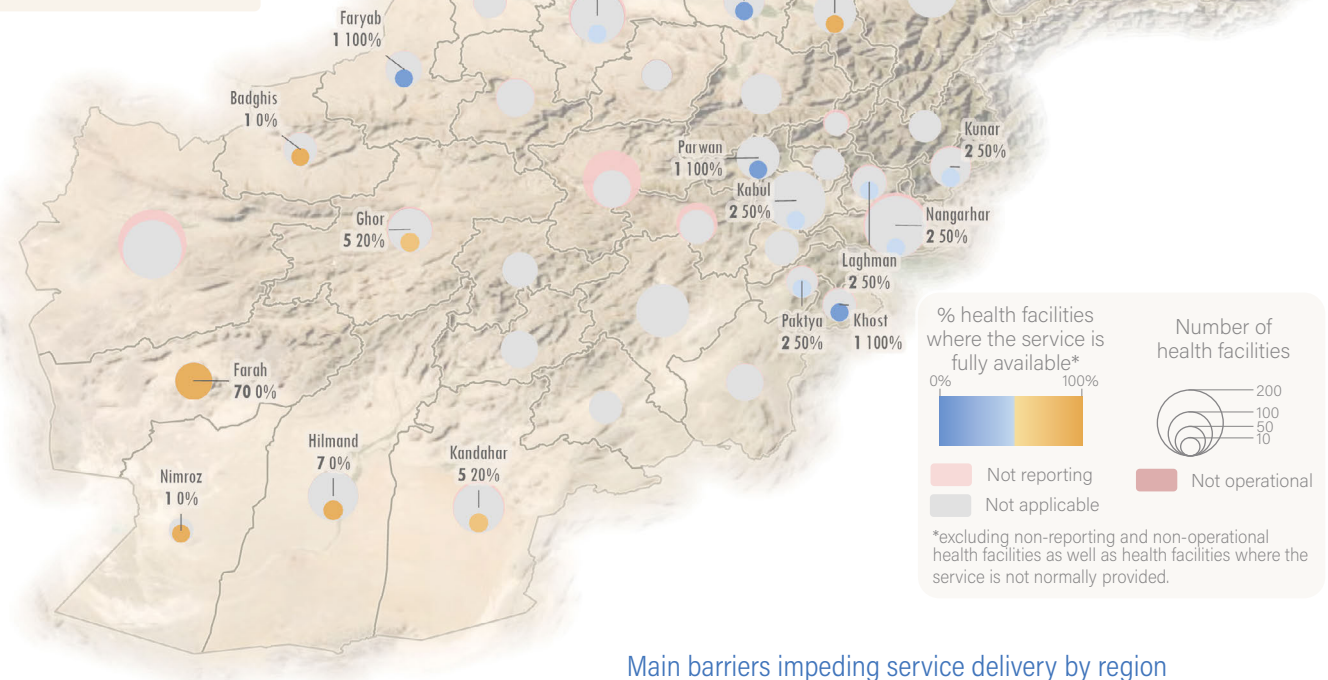
# HEMODIALYSIS UNIT

## Service availability

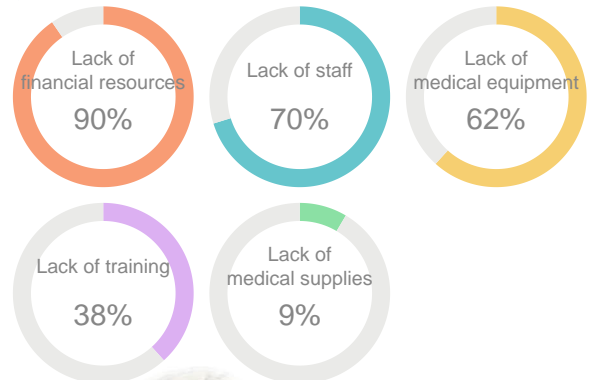


### Map labels

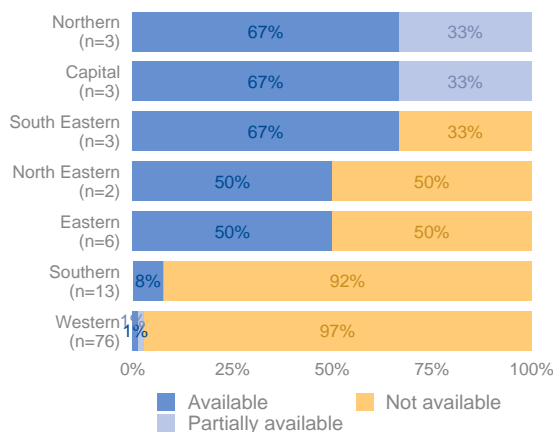
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



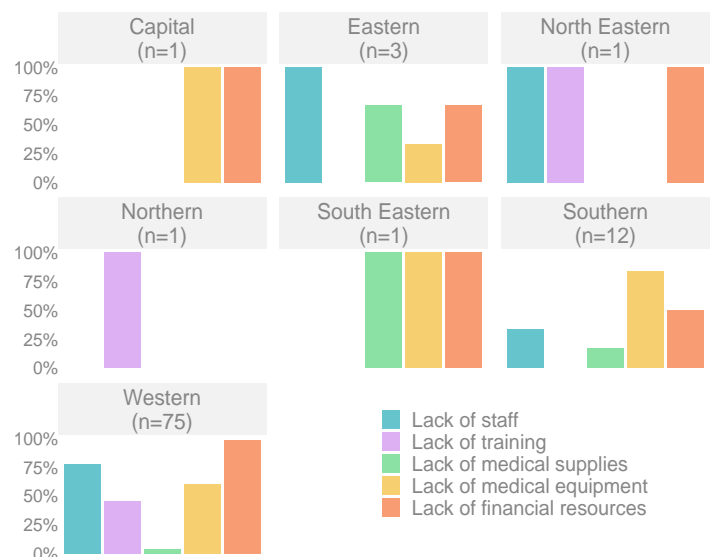
## Main barriers impeding service delivery (n = 94)



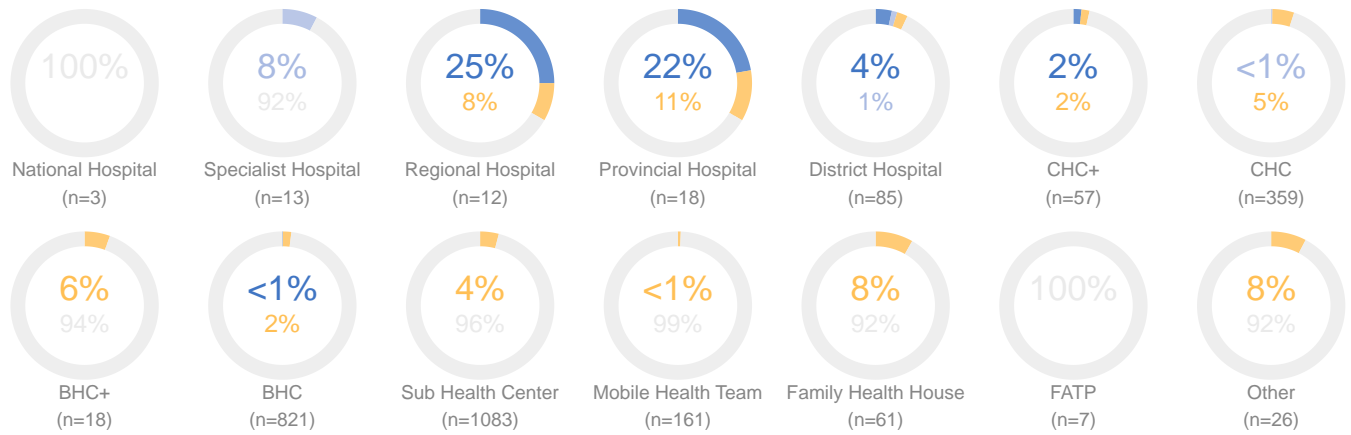
## Service availability by region†



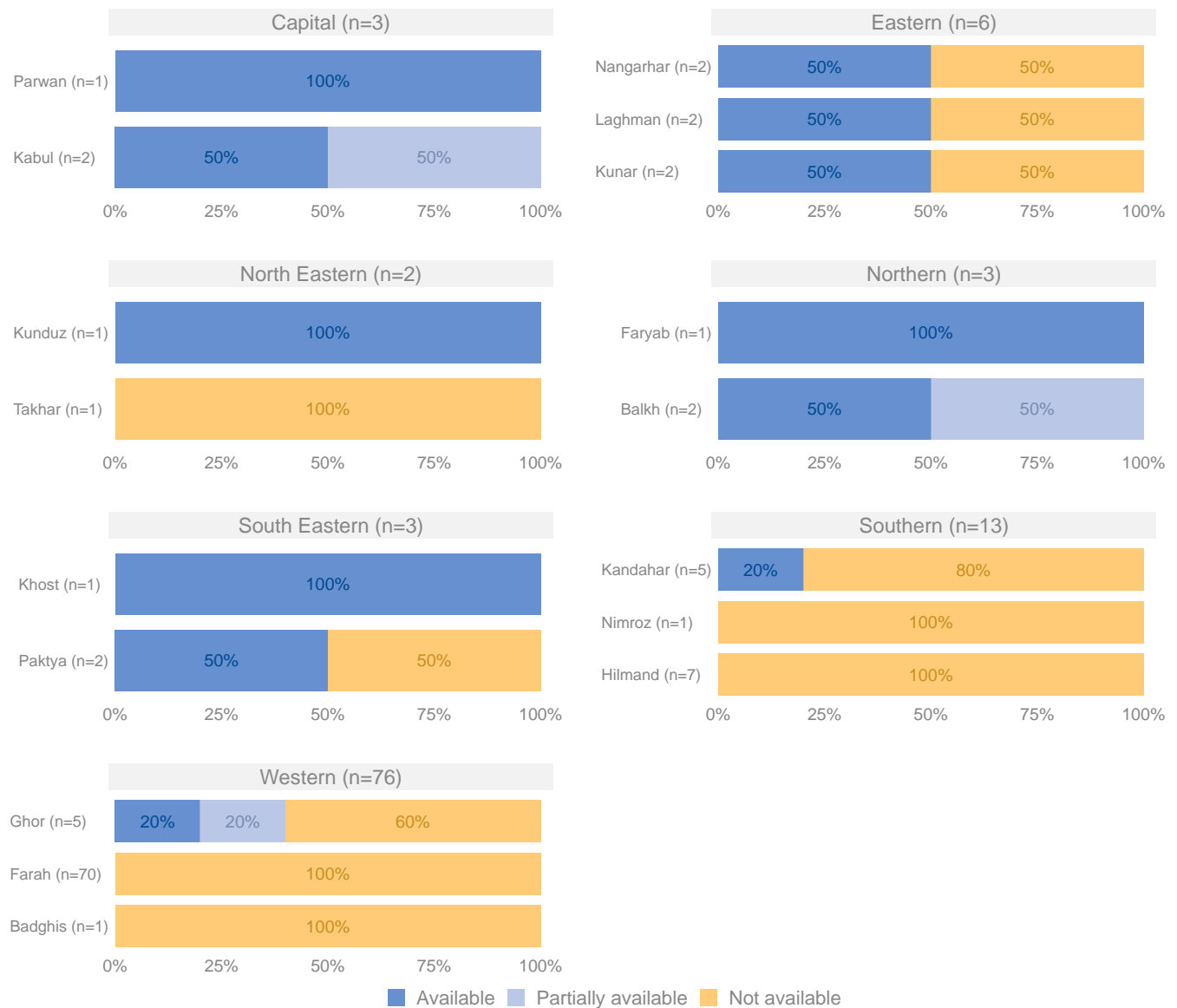
## Main barriers impeding service delivery by region



### Service availability by health facility type



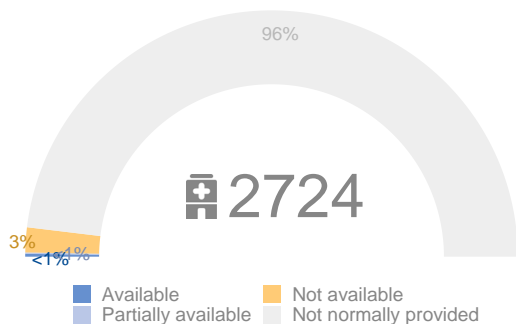
### Service availability by province†



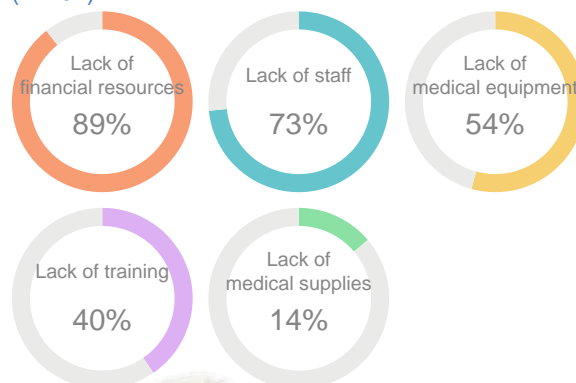
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# ENDOSCOPY SERVICES

## Service availability

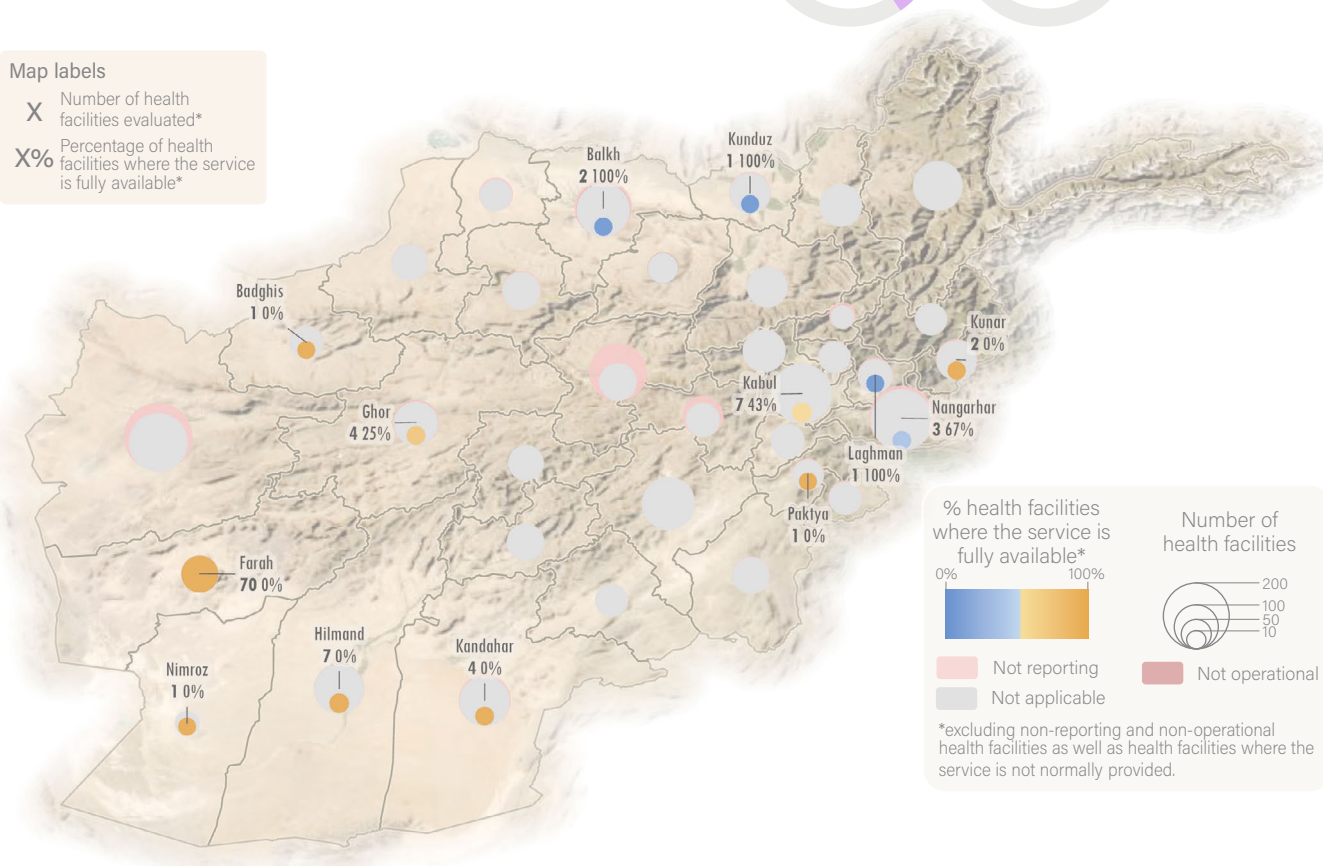


## Main barriers impeding service delivery (n = 94)

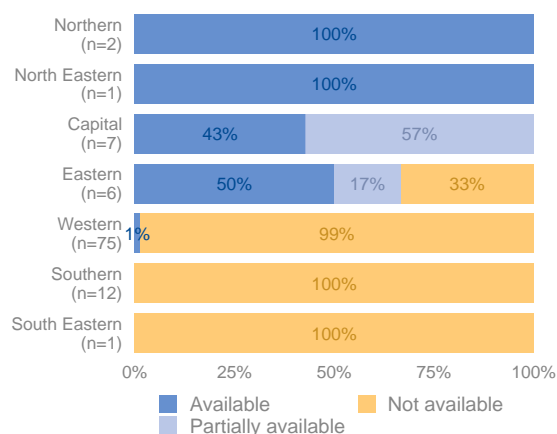


### Map labels

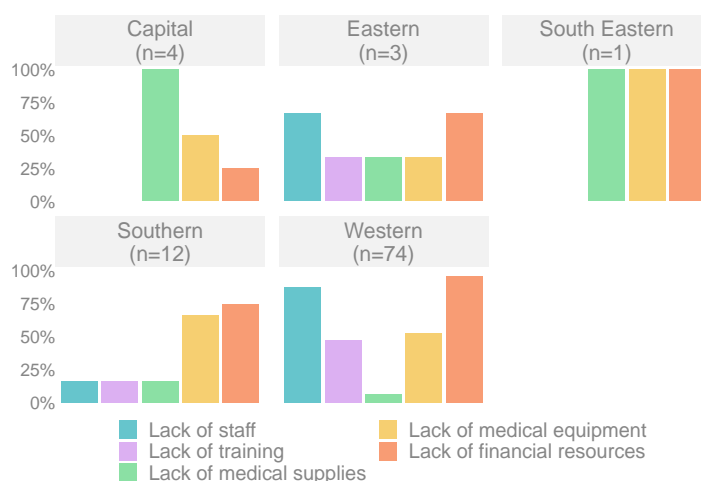
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



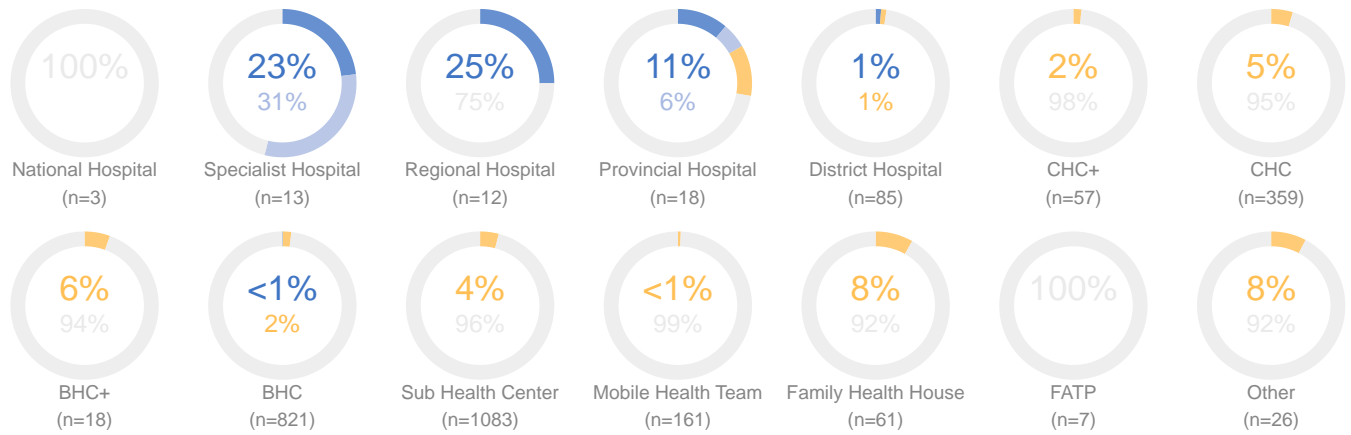
## Service availability by region†



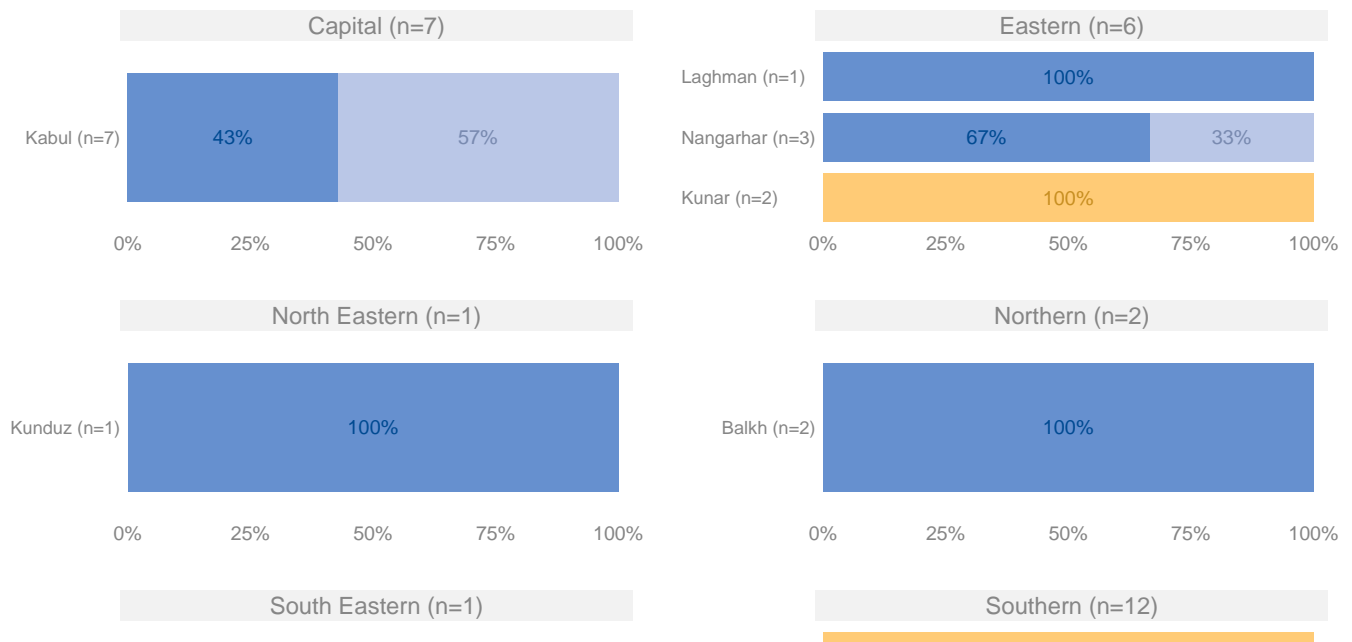
## Main barriers impeding service delivery by region



### Service availability by health facility type



### Service availability by province†

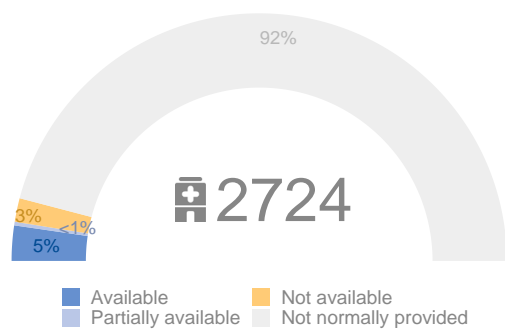


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

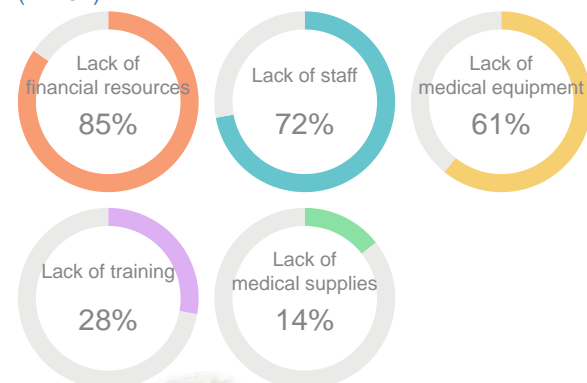


## BASIC X-RAY SERVICE

## Service availability

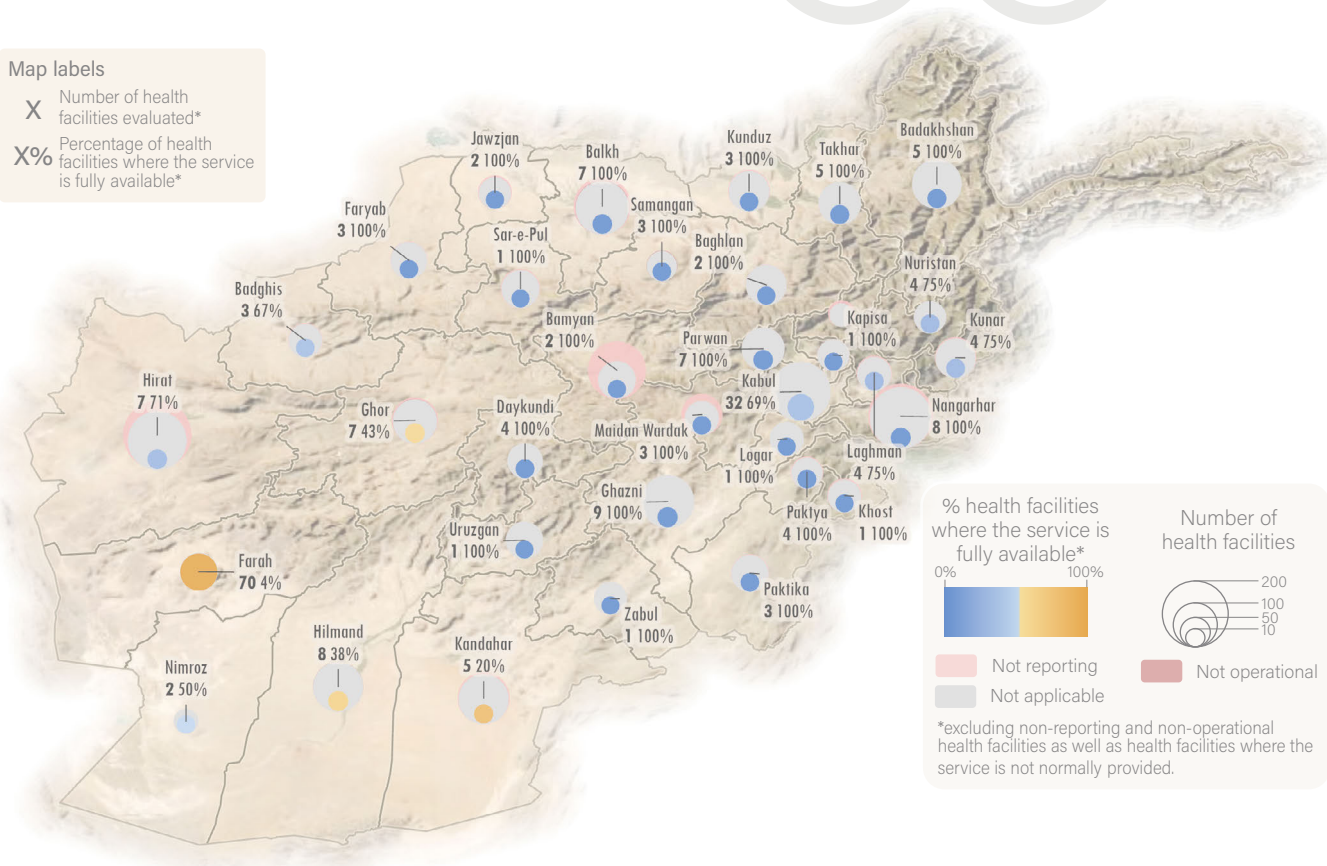


### Main barriers impeding service delivery (n = 97)

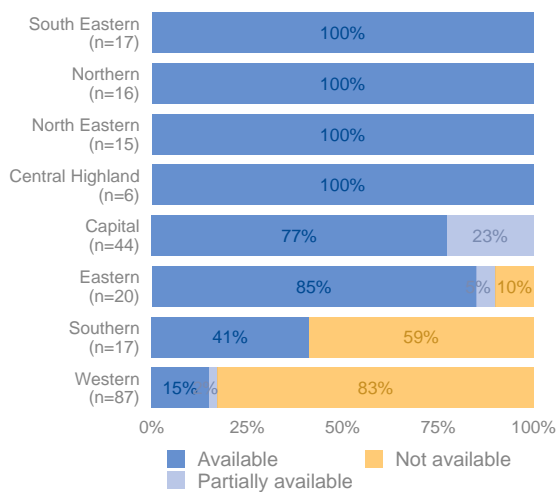


## Map labels

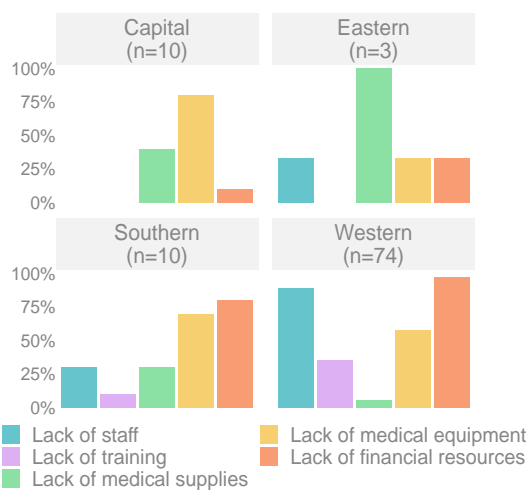
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



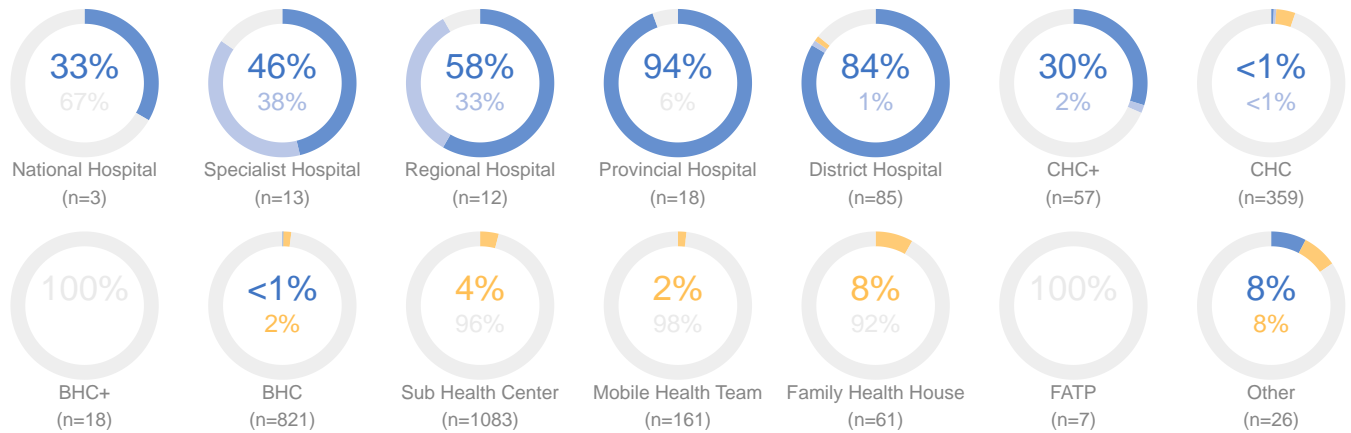
### Service availability by region<sup>†</sup>



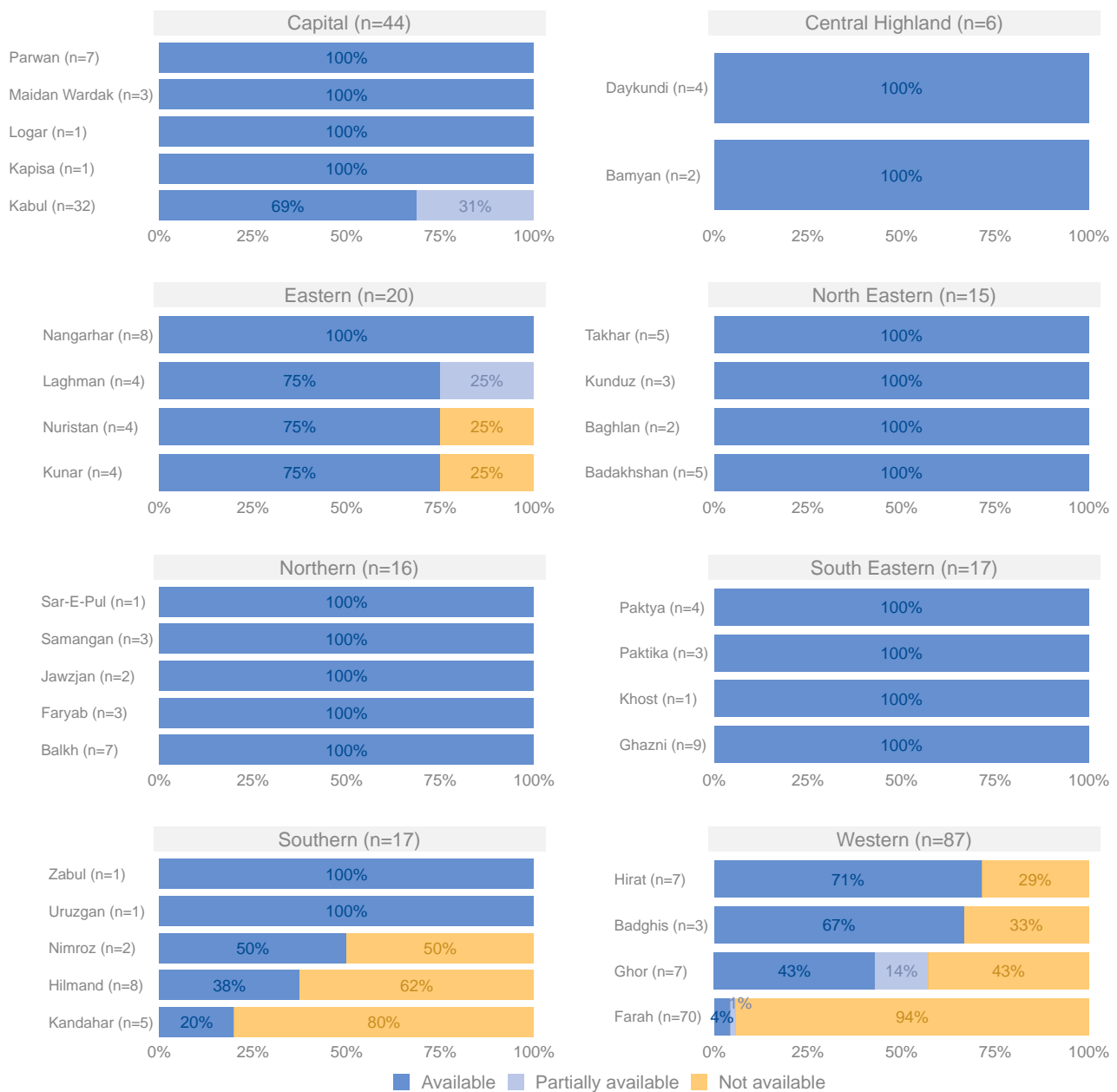
### Main barriers impeding service delivery by region



## Service availability by health facility type



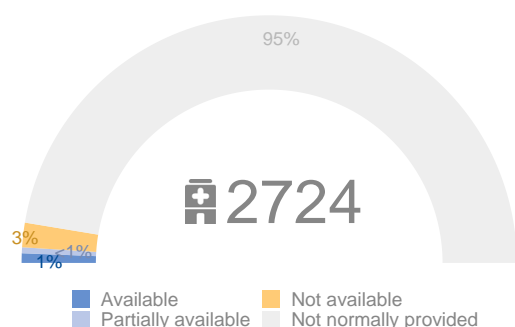
## Service availability by province†



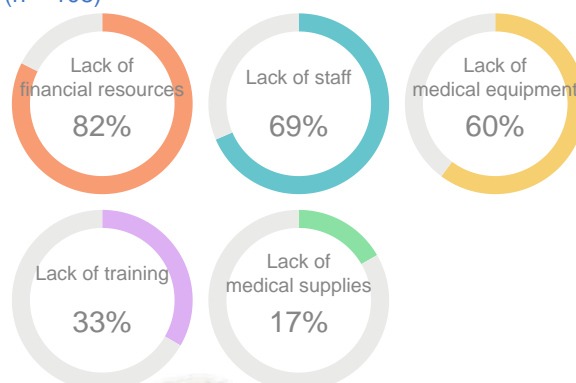
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# RADIOLOGY UNIT

## Service availability

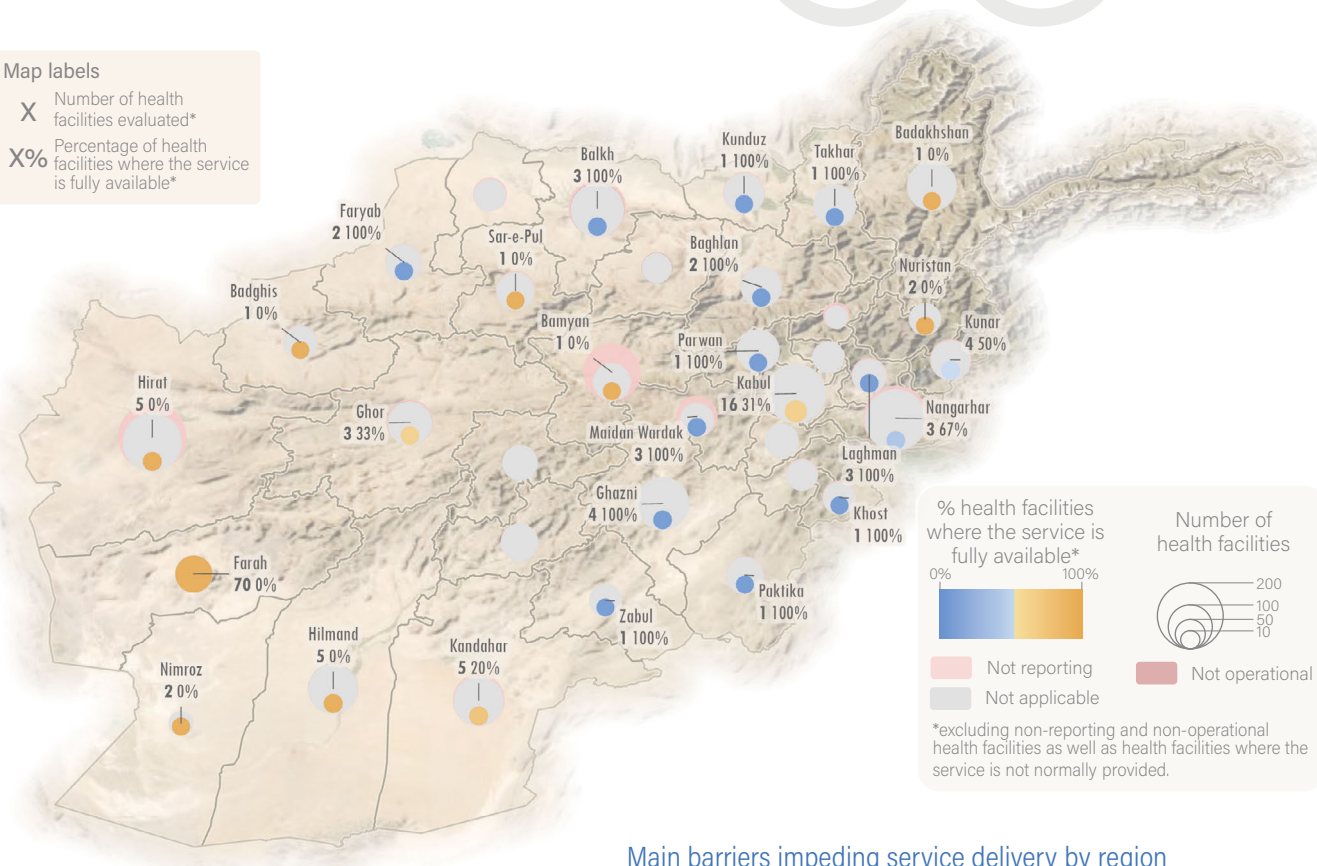


## Main barriers impeding service delivery (n = 108)



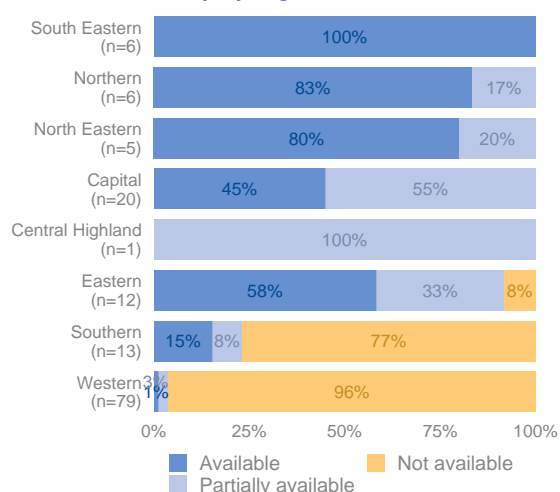
### Map labels

- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*

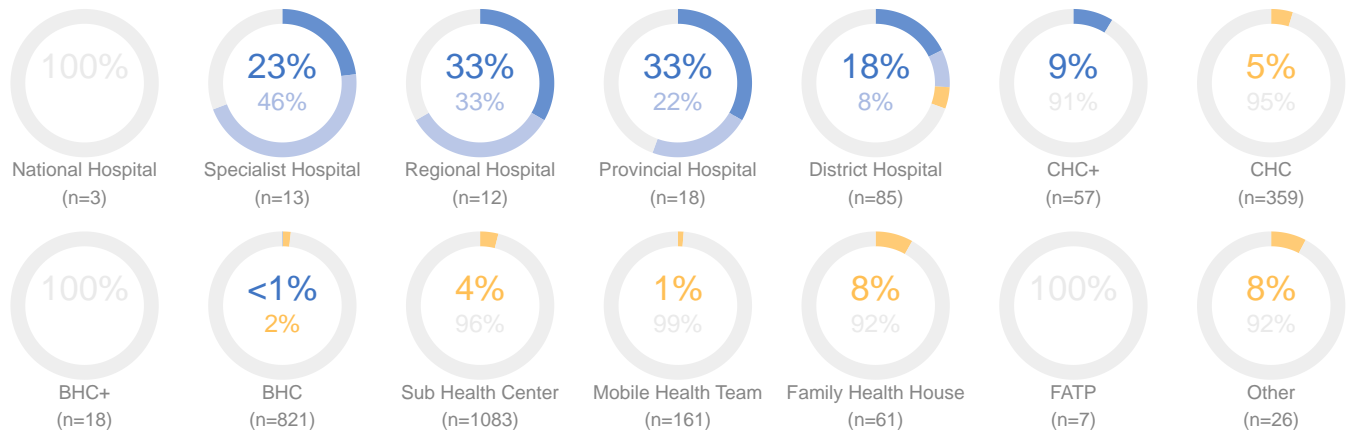


## Main barriers impeding service delivery by region

### Service availability by region\*



### Service availability by health facility type



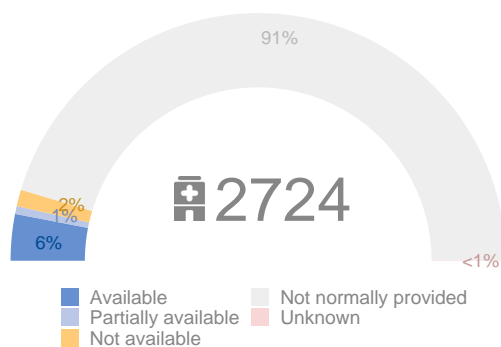
### Service availability by province†



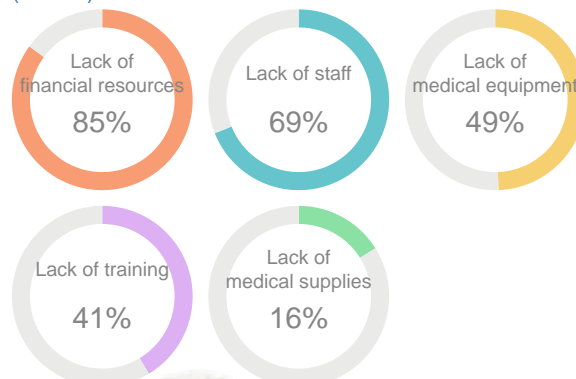
† Chart excludes health facilities where the service is not normally provided or availability is unknown.

# MEDICAL EVACUATION PROCEDURES

## Service availability

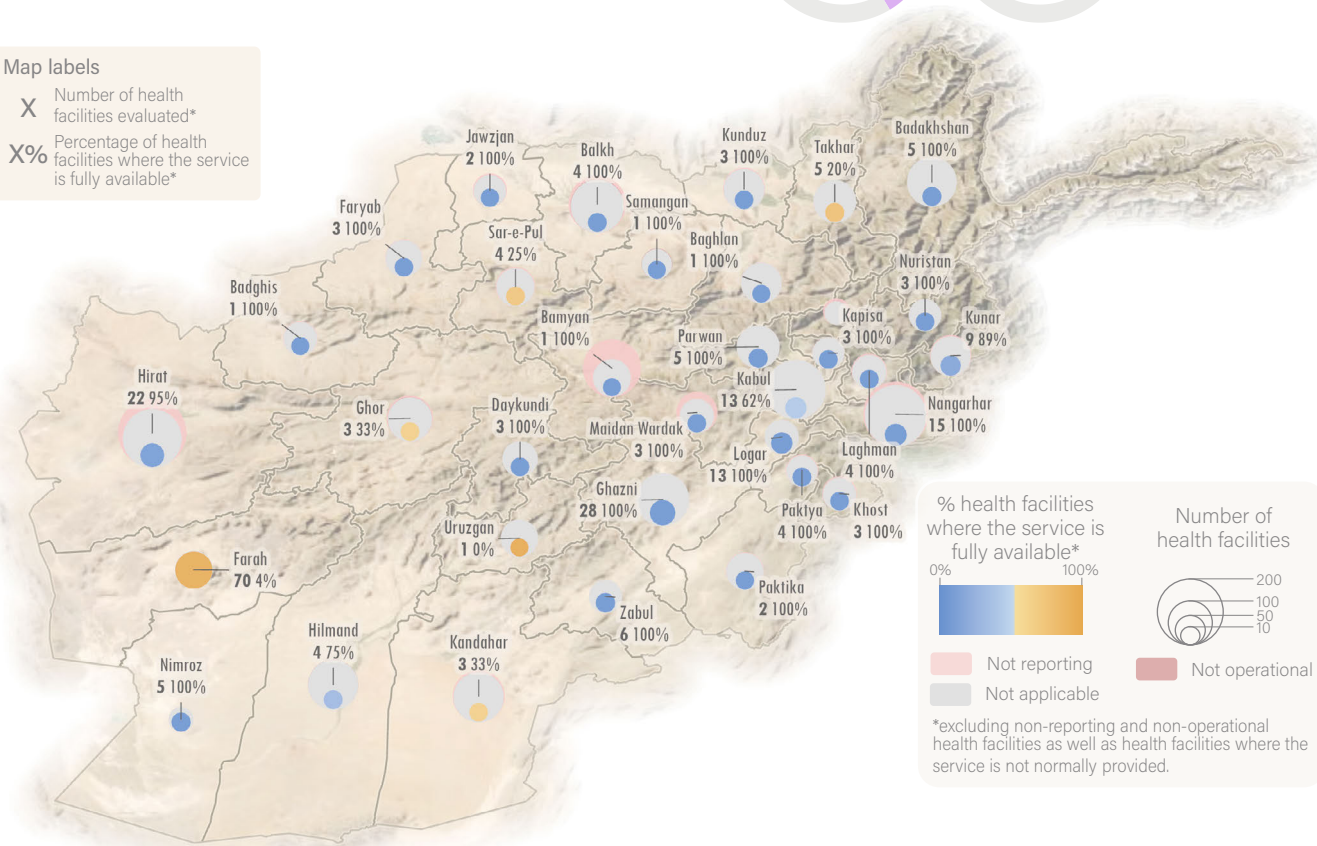


## Main barriers impeding service delivery (n = 87)

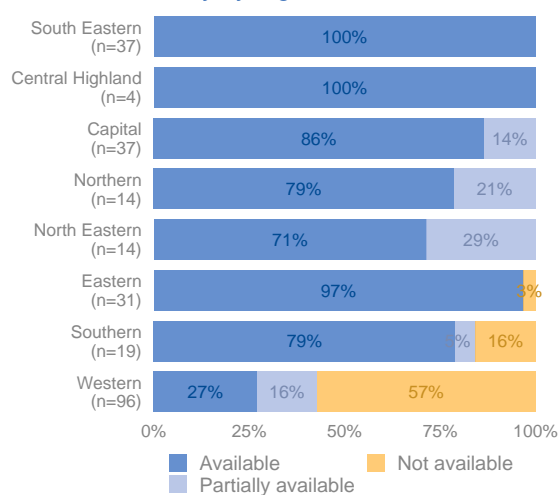


### Map labels

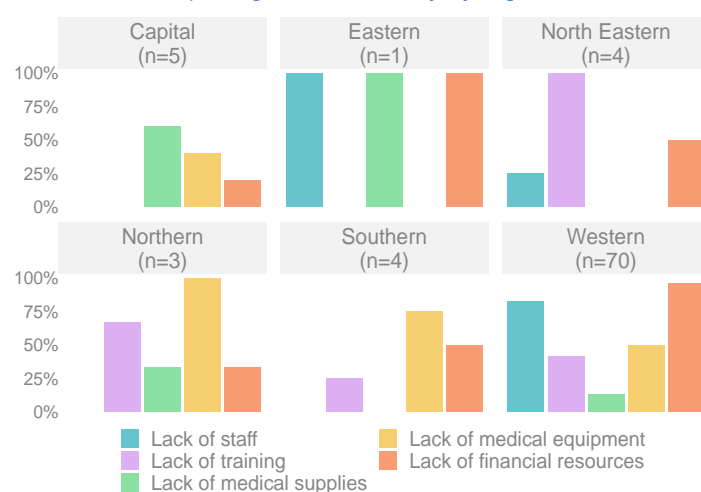
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



## Service availability by region\*

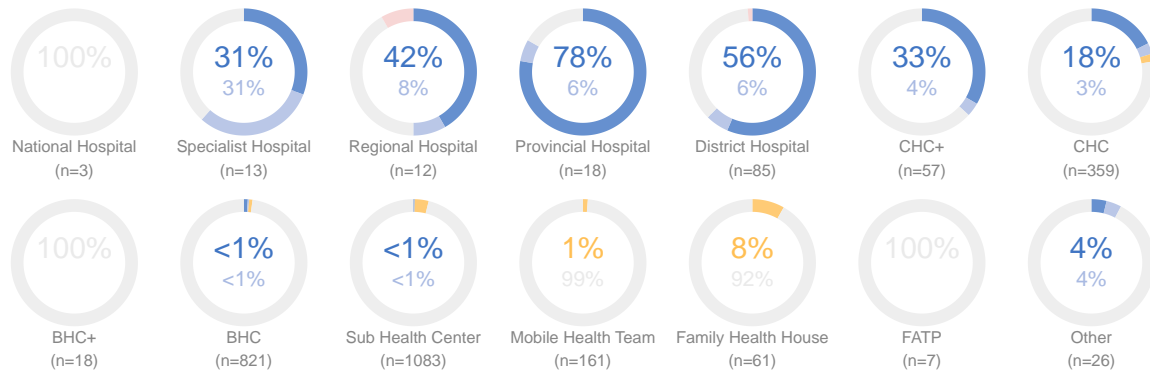


## Main barriers impeding service delivery by region

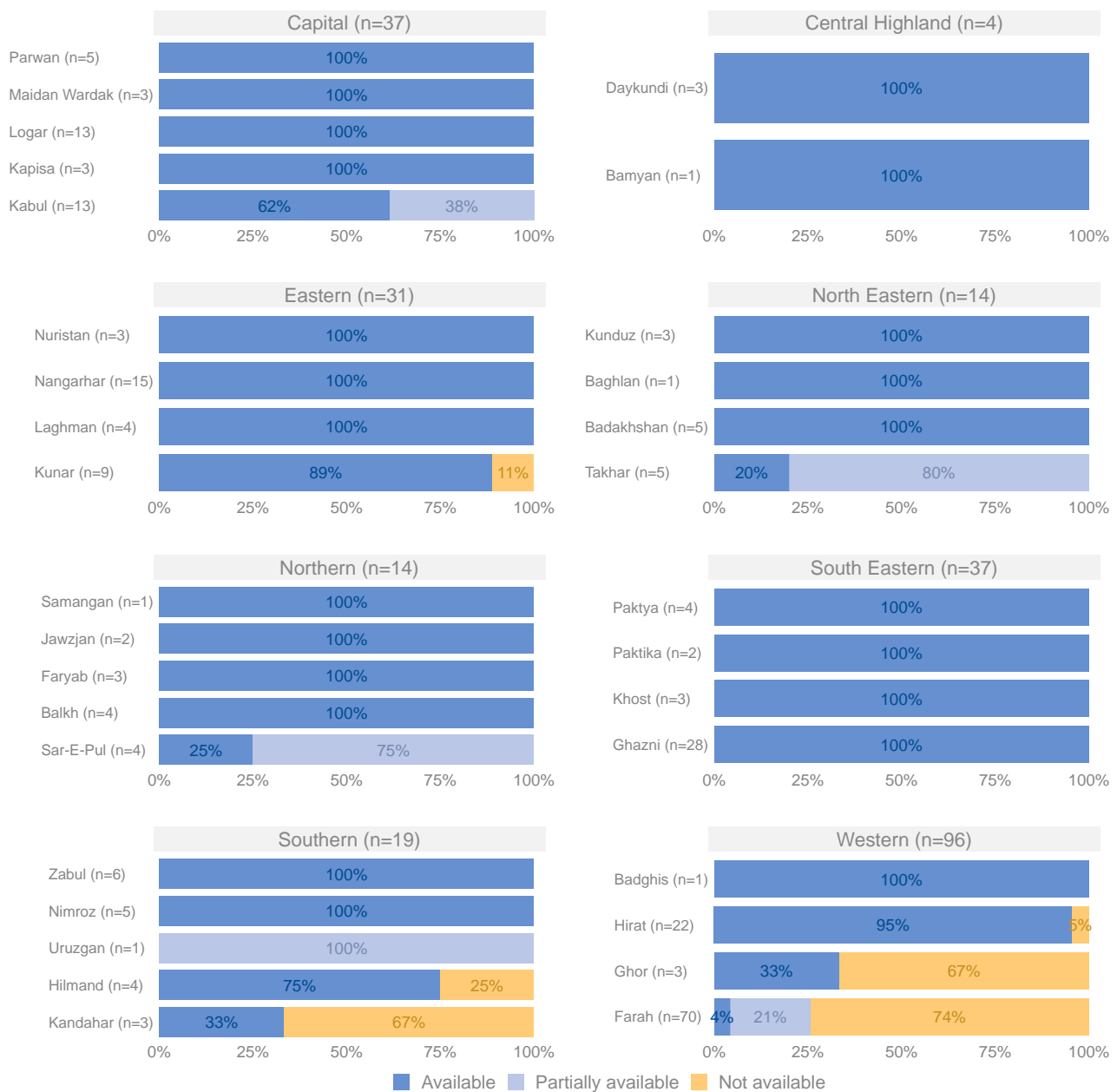




## Service availability by health facility type



## Service availability by province†

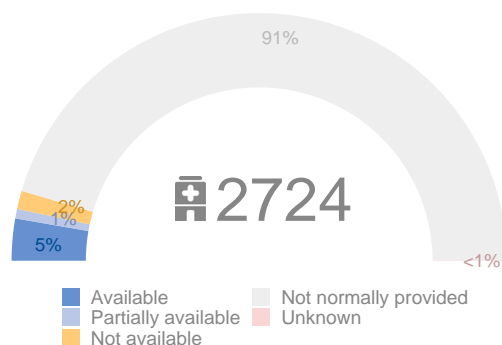


† Chart excludes health facilities where the service is not normally provided or availability is unknown.

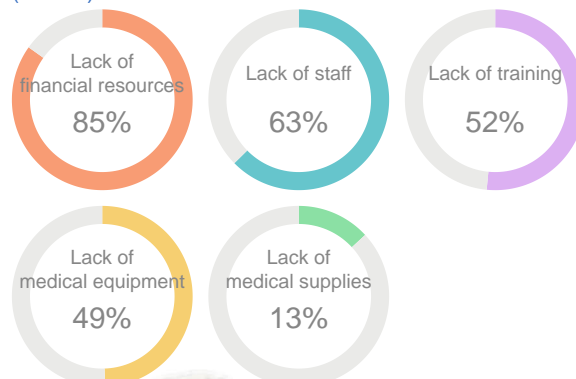


# PROCEDURES FOR MASS CASUALTY SCENARIOS

## Service availability

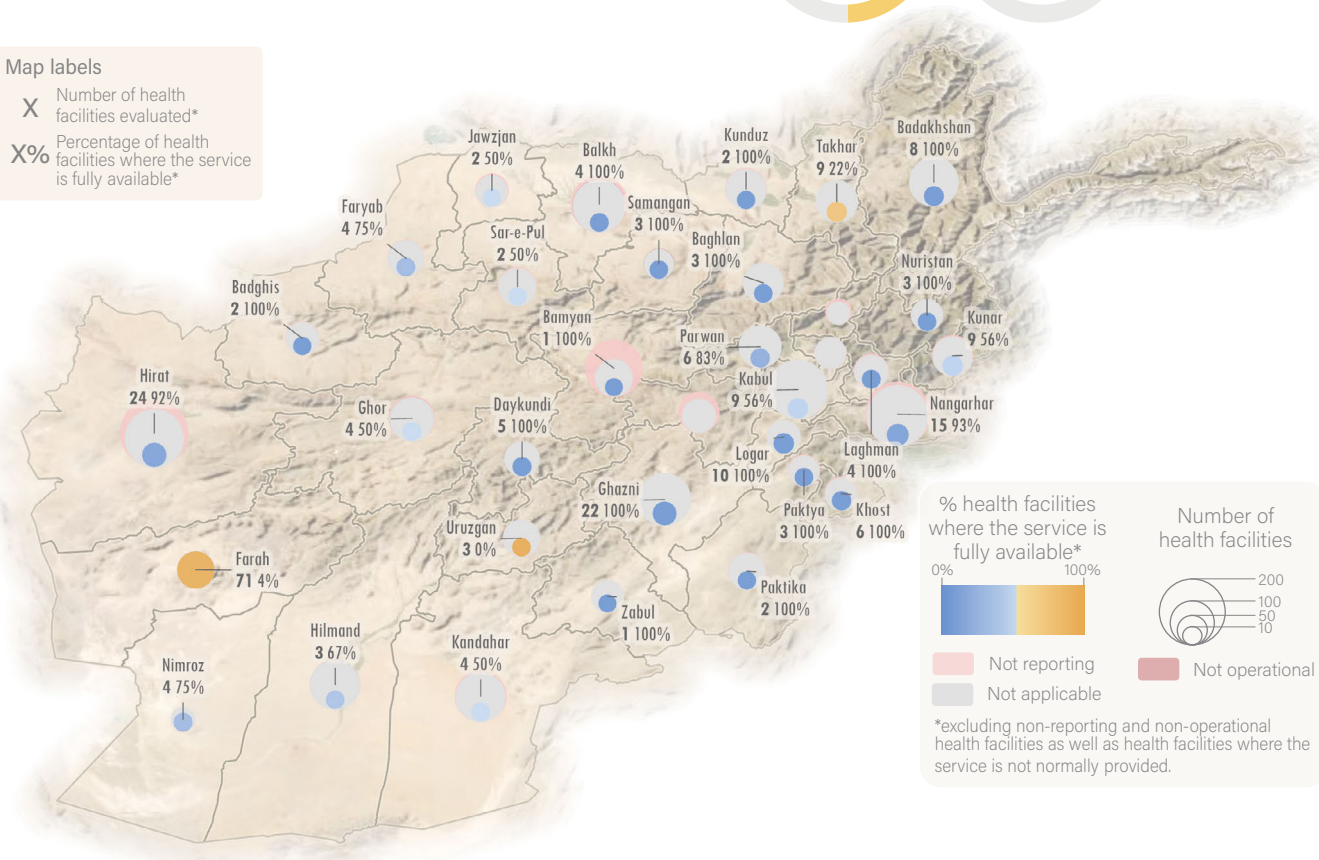


## Main barriers impeding service delivery (n = 99)

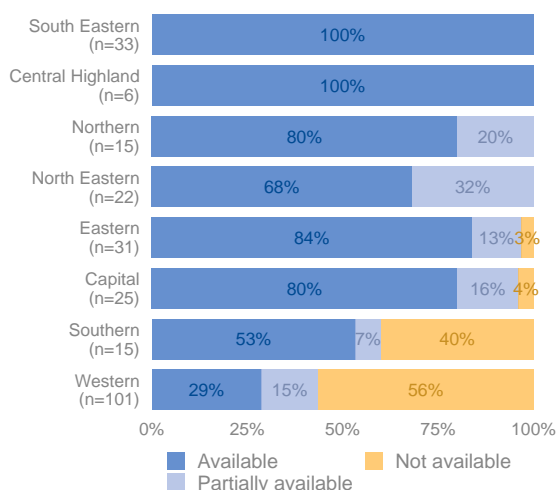


### Map labels

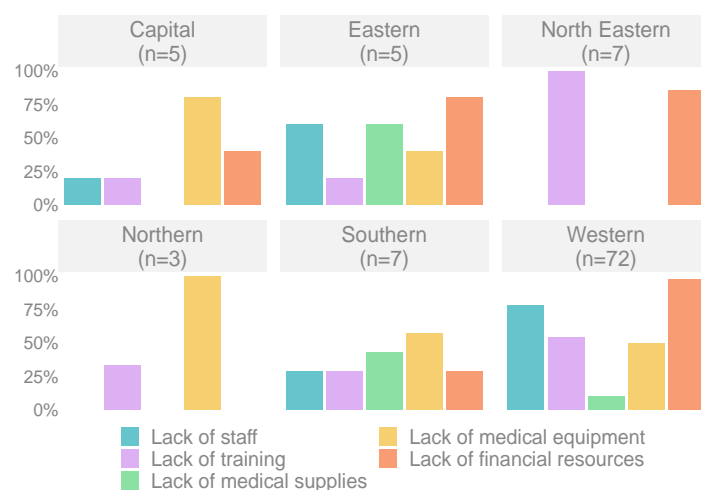
- X Number of health facilities evaluated\*
- X% Percentage of health facilities where the service is fully available\*



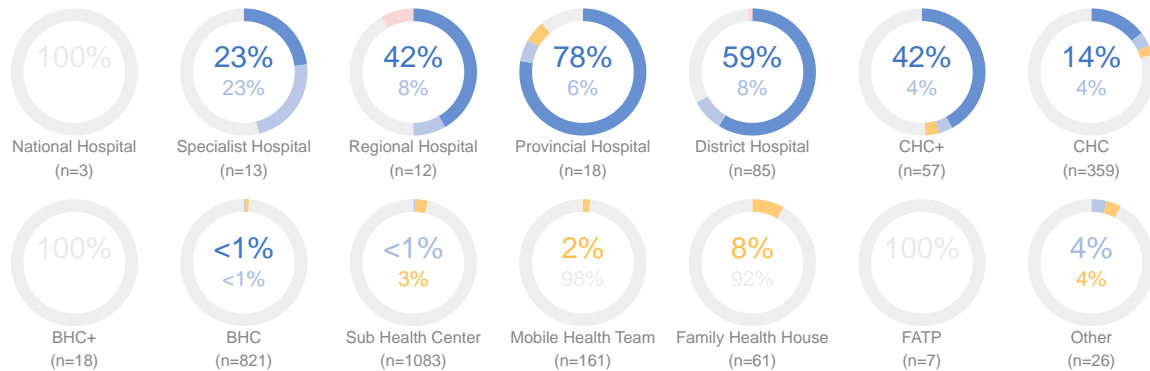
## Service availability by region†



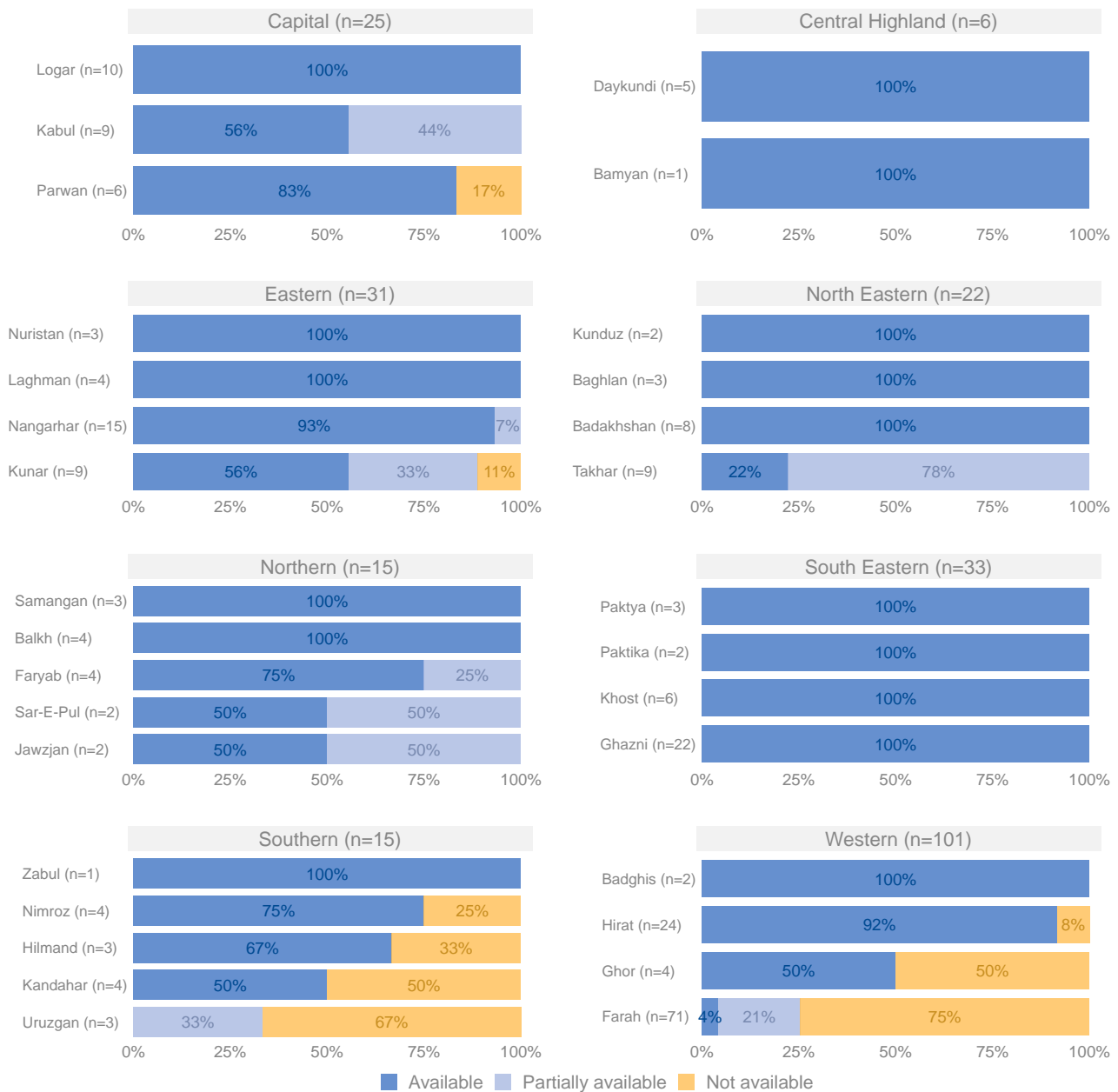
## Main barriers impeding service delivery by region



### Service availability by health facility type



### Service availability by province†



† Chart excludes health facilities where the service is not normally provided or availability is unknown.



# ANNEX



# ANNEX I: HeRAMS SERVICE DEFINITIONS

SERVICE NAME	DEFINITION	SERVICE EXPECTED													
		NH	SH	RH	PH	DH	CHC+	CHC	BHC+	BHC	SHC	MHT	FHH	FATP	Other
REQUEST FOR AMBULANCE SERVICES BY THE PATIENT	User-activated dispatch of basic ambulance services from province-level staging center (e.g., ambulance pool)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RECOGNITION OF DANGER SIGNS	Recognition of danger signs in neonates, children and adults, including early recognition of signs of serious infection, with timely referral to higher-level care.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ACUITY-BASED FORMAL TRIAGE	Acuity-based formal triage of children and adults at first entry to the facility (with a validated instrument such as WHO/ICRC Interagency Triage Tool)	X	X	X	X	X									
WHO BASIC EMERGENCY CARE BY PREHOSPITAL PROVIDER	Initial syndrome-based management at scene by prehospital providers for difficulty breathing, shock, altered mental status, and polytrauma.	X	X	X	X	X	X	X	X	X	X	X	X	X	
WHO BASIC EMERGENCY CARE	Basic syndrome-based management of difficulty breathing, shock, altered mental status, and polytrauma for neonates, children and adults	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ADVANCED SYNDROME-BASED MANAGEMENT	Advanced Syndrome-based management of difficulty breathing, shock, altered mental status, and polytrauma in dedicated emergency unit, including for neonates, children and adults (Interventions include intubation, mechanical ventilation, surgical airway, and placement of chest drain, hemorrhage control, defibrillation, administration of IV fluids via peripheral and central venous line with adjustment for age and condition, including malnutrition; administration of essential emergency medications)		X	X	X	X									
MONITORED REFERRAL	Direct provider monitoring during transport to appropriate healthcare facility and structured handover to facility personnel	X					X	X	X	X	X	X	X	X	X
REFERRAL CAPACITY	Referral capacity, referral procedures, means of communication, access to transportation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ACCEPTANCE OF REFERRALS	Acceptance of referral with remote decision support for prehospital providers and primary-level facilities, and condition-specific protocol-based referral to higher levels	X	X	X	X	X	X	X	X	X	X	X	X		
ACCEPTANCE OF COMPLEX REFERRALS	Acceptance of complex referrals with remote decision support for prehospital providers and lower-level facilities	X	X	X	X	X									
OUTPATIENT SERVICES FOR PRIMARY CARE	Outpatient services for primary care with availability of all essential drugs for primary care as per national guidelines.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
OUTPATIENT DEPARTMENT FOR SECONDARY CARE	Outpatient department with availability of all essential drugs for secondary care as per national guidelines (including non-communicable disease (NCD) and pain management), and at least one general practitioner	X	X	X	X	X									
HOME VISITS	Home visits, including promotion of self-care practices, monitoring of NCD medication compliance and palliative care.														
MINOR TRAUMA DEFINITIVE MANAGEMENT	Definitive management of minor trauma, including pain management, tetanus toxoid and human antitoxin, minor surgery kits, suture absorbable/silk with needles, disinfectant solutions, bandages, gauzes, cotton wool	X	X	X	X	X	X	X	X	X	X	X	X	X	X

SERVICE NAME	DEFINITION	SERVICE EXPECTED													
		NH	SH	RH	PH	DH	CHC+	CHC	BHC+	BHC	SHC	MHT	FHH	FATP	Other
EMERGENCY AND ELECTIVE SURGERY	Full surgical wound care, advanced fracture management through at least one operating theatre with basic general anesthesia (with or without gas)	X	X	X	X	X									
EMERGENCY AND ELECTIVE SURGERY WITH AT LEAST TWO OPERATING THEATRES	Emergency and elective surgery with at least two operating theatres: with pediatric and adult gaseous anesthetic	X	X	X	X										
ORTHOPEDIC/TRAUMA WARD	Orthopedic/trauma ward for advanced orthopedic and surgical care, including burn patient management	X		X	X										
SHORT HOSPITALIZATION CAPACITY	Short hospitalization capacity (maximum 48 hours)	X	X	X	X	X	X	X	X	X	X	X	X		X
20 INPATIENT BED CAPACITY	At least 20 inpatient bed capacity with 24/7 availability of medical doctors (MD), nurses and midwives, and 4<U+0096>5 beds for short observation before admission, or 24/48-hour hospitalization	X	X	X	X	X	X								X
50 INPATIENT BED CAPACITY	50 inpatient bed capacity with pediatric and ob-gyn wards with 24/7 availability of doctors and/or specialists (general surgeon, ob-gyn, pediatrician, others)	X	X	X	X	X									
INPATIENT CRITICAL CARE MANAGEMENT	Inpatient critical care management with availability of mechanical ventilation, infusion pumps, and third-line emergency drugs	X	X	X	X	X									
INTENSIVE CARE UNIT	Intensive care unit with at least 4 beds	X	X	X	X	X									X
BASIC LABORATORY	<b>Hematology services:</b> Hemoglobin, red & white blood cell count, Erythrocyte sedimentation rate (ESR) and differential cell count, Blood grouping and Rh factors, Hepatitis B and C and syphilis tests, HIV test, white blood count (WBC and differential) manual, Malaria parasite smear	X	X	X	X	X	X	X	X	X					X
	<b>Bacteriology:</b> Ziehl-Nielsen staining for acid fast bacilli, Albert's staining for diphtheria, Gram's staining														
	<b>Clinical Pathology:</b> Urine analysis (physical exam), qualitative Albumin and glucose, microscopic stool test, pregnancy test														
LABORATORY SERVICES SECONDARY LEVEL	<b>Hematology:</b> basic hematology services plus, hematocrit, and bleeding time and coagulation time test														
	<b>Bacteriology:</b> basic bacteriology services plus blood sugar (glycometer)														
	<b>Clinical pathology:</b> microscopic urine and stool tests, qualitative albumin and glucose, Gram Stain for bodily fluids	X	X	X	X	X									
	<b>Blood transfusion and blood bank services:</b> blood grouping (Beth Vincent/Simonin), cross-matching, HIV antibody (I and II) testing, Hepatitis B surface antigen, Hepatitis C virus, venereal disease research laboratory (VDRL) testing (syphilis)														



SERVICE NAME	DEFINITION	SERVICE EXPECTED													
		NH	SH	RH	PH	DH	CHC+	CHC	BHC+	BHC	SHC	MHT	FHH	FATP	Other
LABORATORY SERVICES TERTIARY LEVEL	<b>Hematology:</b> secondary level services plus prothrombine time, automated WBC, platelets and reticulocyte <b>Biochemistry:</b> secondary level services plus advanced automated blood sugar, electrolytes (Na+, K+, CA++), LFT and liver enzymatic test, Kidney function tests <b>Serology:</b> creactive protein, toxoplasmosis (national hospitals only), Anti-Streptolysine-O (ASLO), Rubeola AG, Typhoid AG (Widal), CD 4 cell count, Brucellosis <b>Culture:</b> Culture and sensitivity testing	X	X	X	X										
BLOOD BANK SERVICES	Blood bank services	X	X	X	X	X									
HEMODIALYSIS UNIT	Hemodialysis unit	X		X	X										
ENDOSCOPY SERVICES	Endoscopy services	X		X	X										
BASIC X-RAY SERVICE	X-ray service with basic radiological unit and ultrasound	X	X	X	X	X									
RADIOLOGY UNIT	Radiology unit with X-ray with stratigraphy, intraoperation X-ray intensifier, ultrasound, MRI and/or CT scan	X	X	X	X										
MEDICAL EVACUATION PROCEDURES	Medical evacuation procedures (medevac) with means of transport and referral network for patients requiring highly specialized care	X		X	X	X									
PROCEDURES FOR MASS CASUALTY SCENARIOS	Procedures in place for early discharge of post-surgery patients through referral to secondary hospitals, in mass casualty scenario	X		X	X										

## ANNEX II: POPULATION ESTIMATES

REGION	PROVINCE	POPULATION ESTIMATES
<b>Capital</b>		<b>7,920,155</b>
	KABUL	5,385,526
	KAPISA	496,840
	LOGAR	442,037
	MAIDAN WARDAK	671,817
	PANJSHER	172,895
	PARWAN	751,040
<b>Central Highland</b>		<b>1,049,237</b>
	BAMYAN	504,312
	DAYKUNDI	544,925
<b>Eastern</b>		<b>1,661,077</b>
	KUNAR	508,224
	LAGHMAN	502,148
	NANGARHAR	1,735,531
	NURISTAN	166,676
<b>North Eastern</b>		<b>4,379,842</b>
	BADAKHSHAN	1,072,785
	BAGHLAN	1,033,760
	KUNDUZ	1,160,124
	TAKHAR	1,113,173
<b>Northern</b>		<b>4,356,890</b>
	BALKH	1,543,464
	FARYAB	1,129,528
	JAWZJAN	613,481
	SAMANGAN	438,235
	SAR-E-PUL	632,182
<b>South Eastern</b>		<b>3,446,404</b>
	GHAZNI	1,386,764
	KHOST	647,730
	PAKTIKA	789,079
	PAKTYA	622,831
<b>Southern</b>		<b>1,541,929</b>
	HILMAND	1,452,766
	KANDAHAR	1,431,876
	NIMROZ	186,963
	URUZGAN	443,804
<b>Western</b>		<b>4,097,494</b>
	BADGHIS	559,297
	FARAH	573,146
	GHOR	777,882
	HIRAT	2,187,169
<b>Total</b>		<b>32,069,160</b>

