

# Health Resources Availability Monitoring System HeRAMS

**Third Quarter, 2020 Report**  
**Turkey Health Cluster for Northwest of Syria**  
**July - Sept 2020**

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Health Resources Availability Monitoring System (**HeRAMS**) is a health cluster standardized approach supported by a software-based platform that aims at strengthening the collection, collation and analysis of information on the availability of health resources and services in humanitarian context. It aims to address the needs/gaps expressed by the health cluster on coordination and management by providing timely, relevant, and reliable information.

HeRAMS provides a tool for assessing, monitoring, and processing a comprehensive set of available data collected at health facility level. It covers; geographical location of the HF, demographic data on catchment area, type, functionality, building type, inpatient capacity, managing and supporting partners, health personnel, access and security, and health services provided at different levels of healthcare.

This report provides a summary of the analysis of the available health resources and services in northern Syria in the areas covered by Turkey hub health cluster partners. The report is produced with the data provided mainly by Turkey hub health cluster members and partners which includes national and international non-governmental organizations.

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# Acronyms

<b>ANC</b>	Antenatal care
<b>BEmONC</b>	Basic Emergency Obstetric and Newborn Care
<b>CEmOC</b>	Comprehensive emergency obstetric care
<b>CHW</b>	Community Health Worker
<b>CPHC</b>	Comprehensive Primacy Health Center
<b>HeRAMS</b>	Health Resources Availability Monitoring System
<b>HF</b>	Health Facility
<b>HIV</b>	Human Immunodeficiency Virus
<b>HW</b>	Health Worker
<b>IMCI</b>	Integrated Management of Childhood Illness
<b>MW</b>	Mid Wife
<b>MUAC</b>	Mid-Upper Arm Circumference
<b>PHC</b>	Primary Health Care
<b>STD</b>	Standard
<b>STI</b>	Sexually transmitted infection

## 1. Distribution of Health facilities

Primary Health Care facilities are classified into different categories based on “The Essential Primary Health Care Package”. The following table provides the distribution of type of functional primary and secondary health care facilities (static and mobile).

**Table 1. Distribution of functioning Health facilities per Governorates Q2 2020 vs. Q3 2020**

Governorates	Hospitals		PHCs		Mobile clinic		Specialized Care Centre		Other Facilities		Grand Total	
	Q2-20	Q3-20	Q2-20	Q3-20	Q2-20	Q3-20	Q2-20	Q3-20	Q2-20	Q3-20	Q2-20	Q3-20
Idleb	42	44	80	83	31	43	28	29	29	23	210	222
Aleppo	20	20	65	70	24	28	20	20	15	18	144	156
*Ar-Raqqa	1	1	5	6	3	3	1	2	0	0	10	12
*Al-Hasakeh	0	0	2	2	2	2	0	0	0	0	4	4
*Deir-ez-Zor	0	0	0	0	2	2	0	0	0	0	2	2
<b>Total</b>	63	65	152	161	62	78	49	51	44	41	370	396

HeRAMS 3<sup>rd</sup> quarter 2020 report consist of **577** Health facilities compared to **550** Health facilities in 2<sup>nd</sup> quarter report 2020.

**396** HFs functional compared to **370** in 2<sup>nd</sup> quarter 2020. The breakdown of the functioning health facilities is as follows

**65 (16.4%)** are Hospitals, **161 (40.5%)** are fixed PHCs, **78 (20%)** are mobile clinics, **51 (13%)** specialized care centers\*\*, while **41 (10%)** others health facilities\*\*\*. **56** health partners managing and supporting were reported. *Out of total (577) reported health facilities, 396 HFs functioning, 157 nonfunctioning and 24\*\*\*\* with no reports compared to (550) reported health facilities, 370 HFs functioning, 154 nonfunctioning and 26 with no reports in the 2<sup>nd</sup> quarter 2020.*

Since 1 December 2019, over **80** health facilities temporarily or permanently suspended services in NW-Syria due to the armed conflict. but many relocated and resume services by Q1 and Q2 2020. By the end of Q3 2020 as seen in table 1 above, there was a remarkable increased in health facilities: **2** hospitals, **9** PHCs and **16** mobile clinics, **2** specialized care centers.

Out of total functioning health facilities reported from the North of Syria **222 (56%)** of them are in Idleb governorate and **156 (39%)** are in Aleppo governorate; while **18 (4.5%)** health facilities reported are from Northeast Syria (Al-Hasakeh, Ar-Raqqa, Deir-ez-Zor) governorates.

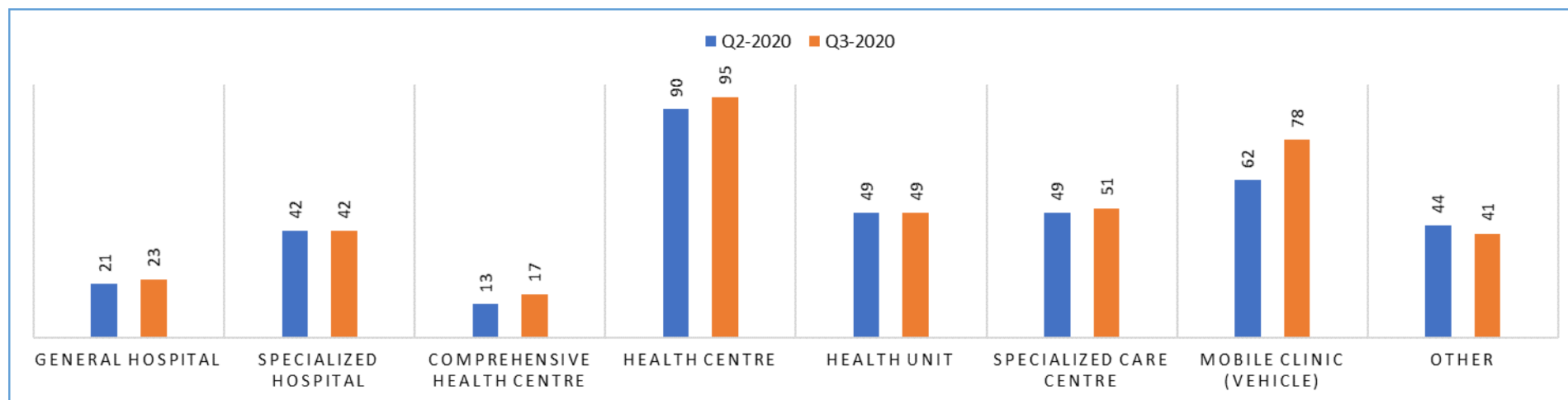
\* The report is for the areas covered by Turkey hub health cluster partners

\*\*Specialized care center: health center provides one health service (Physical Rehabilitation centers, Leishmaniosis centers., Nutrition center, Dialysis center Etc.)

\*\*\*Others health facilities: Ambulance network, Blood Bank, Central Lab, Isolation center.

\*\*\*\* There is no report updated from 24 HFs at of 1<sup>st</sup> of Oct 2020.

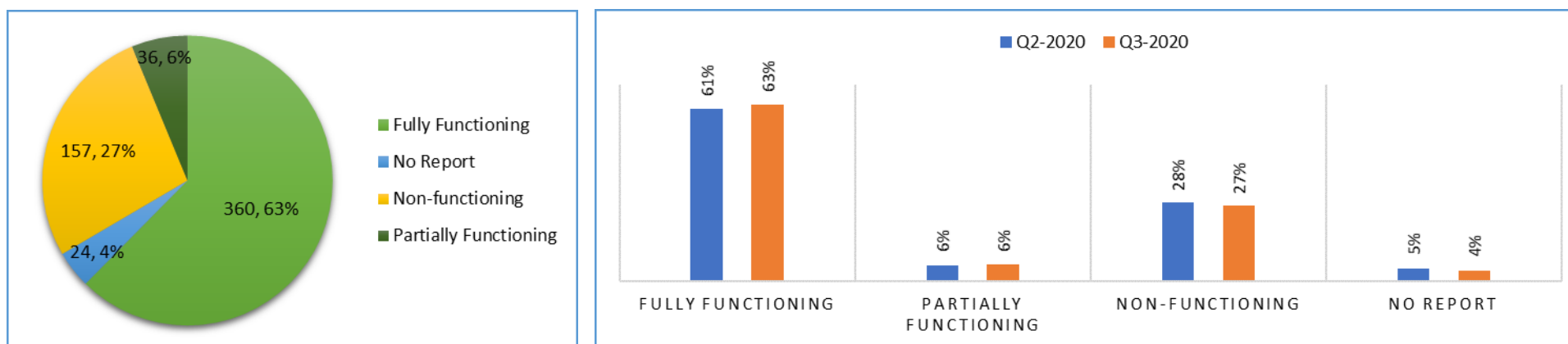
Figure 1. Distribution of functioning Health facilities Q2 2020 vs. Q3 2020



## 2. Functionality status

Functionality has been assessed at three levels: **fully functioning** which means open and providing full package of essential services, **partially functioning** means open but not providing the full package of essential services, or **not functioning**. Out of **577** assessed health facilities, **62% (360)** were reported fully functioning compared to **61% (338)** in the previous quarter, **6.2% (36)** partially functioning compared to **6% (32)** in the previous quarter. Note that **4% (24)** of the facilities not updated their report. See Figure 2.

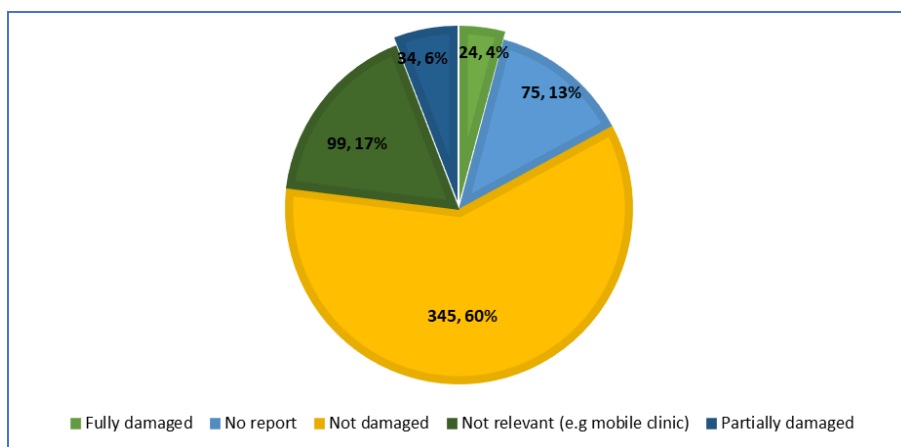
Figure 2. Functionality status of Health facilities



### 3. Condition of health facilities infrastructure

The condition of the health facilities infrastructure has been assessed at three levels: **fully damaged**: major damage requiring complete reconstruction, **partially damaged**: requiring substantial to large scale repair, and **not damaged**, out of the total facilities assessed **10% (58)** health facilities were reported damaged [**24** fully damaged and **34** partially damaged], **60% (345)** were reported intact. See figure 3.

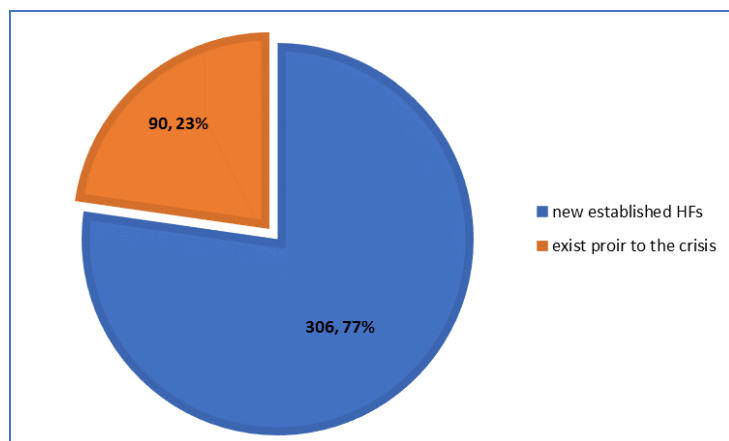
*Figure 3: Level of Damage*



### 4. Health facilities based on date of establishment

The functioning health facilities have been assessed according to whether the health facility exists prior to the crisis or established after the crisis. Out of the functional health facilities **306 (77%)** were newly established, while **90 (23%)** of health facilities existed prior to the crisis in 2011. See figure 4.

Out of the new established health facilities **24%** were established in new building, **12%** working in governmental buildings, **13%** in Residential Building and **4%** working in schools and **25%** in other public structures.

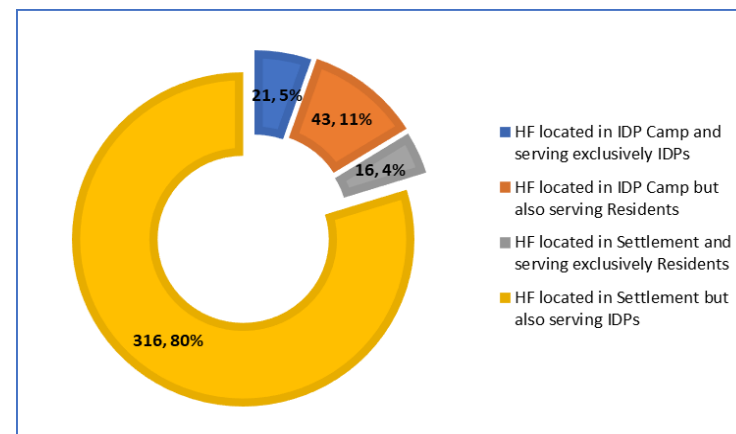


## 5. Health facilities delivery points

Out of the functioning facilities **84%** health facilities are in settlements/communities while **16%** are in IDP camps.

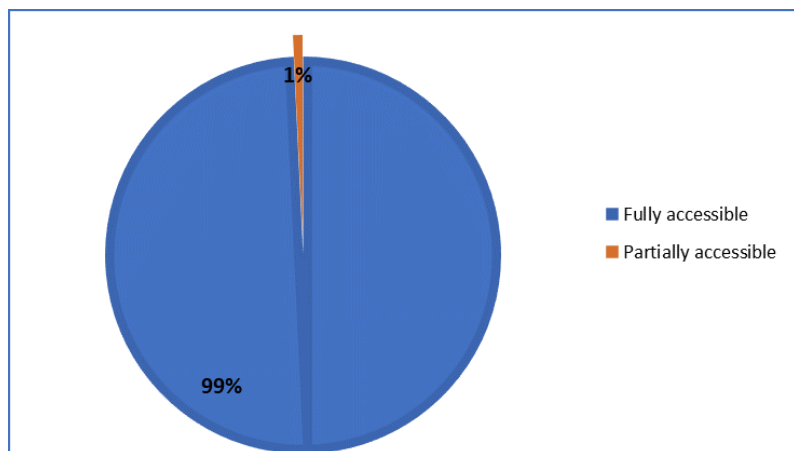
It's worth to mention that **90%** of the functioning health facilities located in settlements/communities are serving both IDPs and residents.

Figure 5: Delivery point types



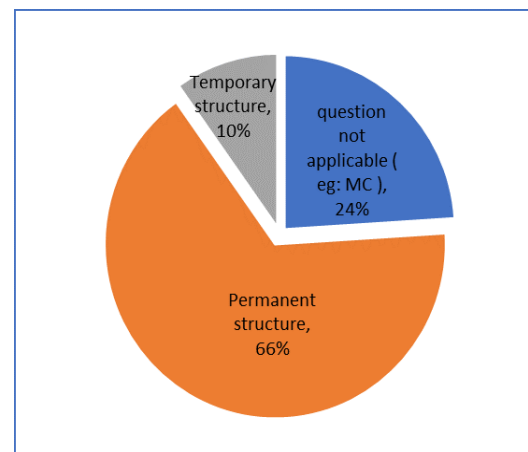
## 6. Health Facilities Resources

Figure 6: Accessibility to patients



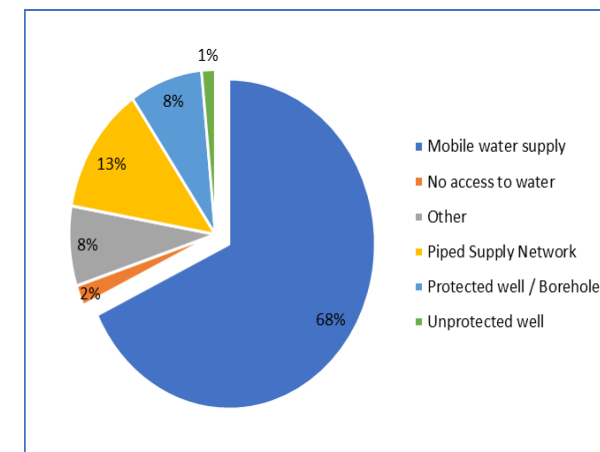
**3** of functioning health facilities reported difficulties in accessibility, mainly due to distance and security.

Figure 7: Modality of health facilities



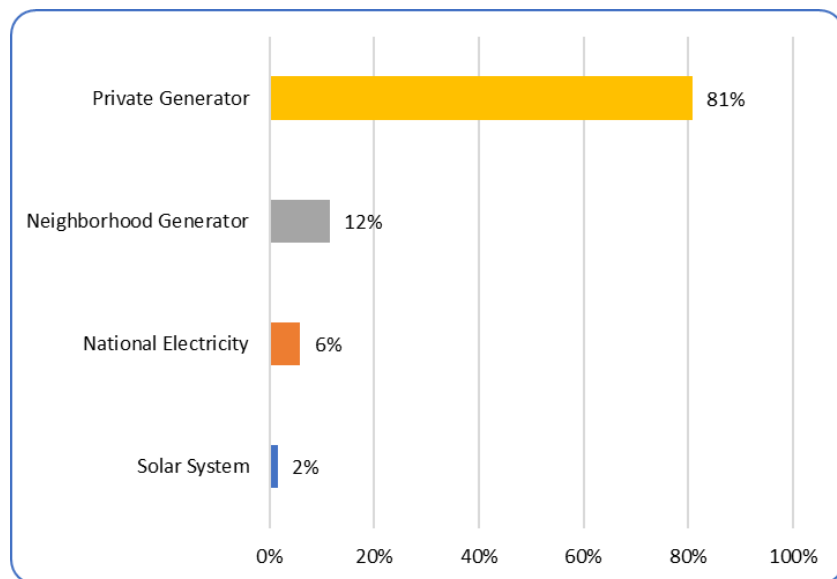
**10%** of functioning facilities are in temporary structure building.

Figure 8: Water Sources



**13%** of the facilities reported without/with an interrupted water supply

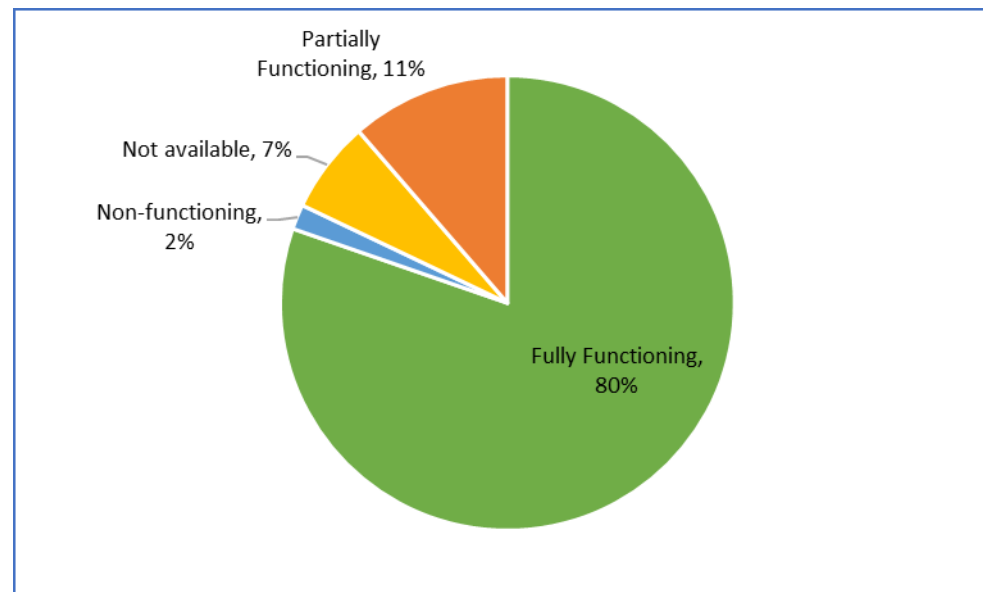
Figure 9: Source of Electricity



Percentage of fixed health facilities per source of electricity.

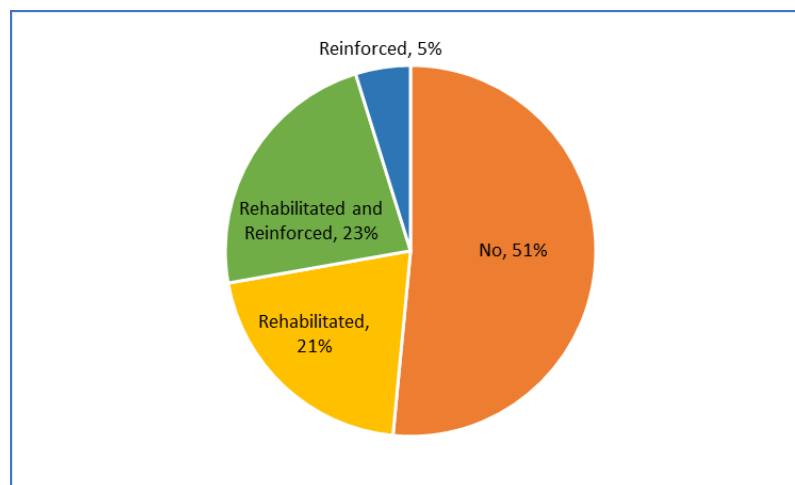
\* facilities may have more than one source

Figure 10: Electricity



**78 (19.5%)** Of the functioning fixed facilities works without/with an interrupted electricity supply

Figure 11: Health facilities rehabilitated and/or reinforced



**49%** of the functioning fixed facilities rehabilitated or/and \*reinforced.

\*Reinforced: underground HFs or Strengthened building structure for protection against the attacks



## 7. Availability of Essential equipment for PHC/SHC

### Total Number of available Essential equipment per governorates ( Hospitals & PHCs )

Essential Equipment Name	Aleppo	Idleb	Total	Essential Equipment Name	Aleppo	Idleb	Total
Ambu bag (Paediatric and Adult)	172	349	521	Infusion pumps	48	144	192
Ambulances	19	53	72	Laboratory Refrigerator (Lab)	30	70	100
Anaesthesia machines	35	103	138	Major surgical sets	65	213	278
Autoclave	41	81	122	Measuring Tape	224	214	438
Beds for Short hospitalization	218	744	962	Medical compressor	16	41	57
Bilirubinometer (Lab)	19	29	48	medical/waste incinerator	13	29	42
Binocular Microscopes (Lab)	31	77	108	Microhematocrit Centrifuge (Lab)	49	67	116
Blood gas / pH analyzer (Lab)	10	22	32	Minor surgical sets	131	420	551
Blood Refrigerator (Lab)	26	40	66	Nebulizer	139	379	518
Blood Tubes Shaker (Lab)	21	45	66	Operating tables	36	106	142
Clinical Chemistry Analyzers, Automated (Lab)	25	47	72	Oxygen cylinders	274	1149	1423
Coagulometer (Lab)	15	22	37	Portable operation lamps	31	65	96
Combined otoscope /laryngoscope complete set	78	240	318	Printer	101	177	278
Computer	182	348	530	Pulse Oximeter	134	272	406
Crush cart	61	200	261	Serum hanger	425	1293	1718
DC Shock machine/ De-fibrillator	37	94	131	Spectrophotometer (Lab)	33	43	76
Dressing Set (scissors, needle holder, forceps, gauze)	149	334	483	Sphygmomanometer	298	516	814
Dry Sterilizer	64	153	217	Spirometer , Diagnostic (Lab)	9	18	27
ECG	61	123	184	Stepstool	109	323	432
Electrolytes Analyzer (Lab)	19	35	54	Stethoscope	398	750	1148
Electrosurgical Unit	26	73	99	Suction machine	127	263	390
Examination Couch	200	510	710	Thermometer	406	1001	1407
Fixed operation lamps	38	115	153	Ultrasound	79	177	256
Generator	105	205	310	Weight scale	120	295	415
Hematology Analyzer Automated (Lab)	25	63	88	Weight scale for adult	120	225	345
Imaging machines: X-Ray	14	44	58	X-ray Illustrator	14	74	88

Below table 3: Showing total Number Hospitals /PHCs per availability of Essential equipment

Essential equipment name	Idleb						Aleppo					
	PHC			Hospital			PHC			Hospital		
	Available	Not Available	No report	Available	Not Available	No report	Available	Not Available	No report	Available	Not Available	No report
Generator	94	5	66	111	1	21	61	3	54	44	0	15
Examination Couch	265	11	69	245	7	21	109	11	57	91	0	14
Stepstool	178	17	73	145	11	24	66	12	64	43	3	15
Weight scale	179	3	69	116	2	21	79	2	55	41	1	14
Measuring Tape	123	9	69	91	11	22	183	4	58	41	3	14
Thermometer	457	3	70	544	2	21	233	2	55	173	1	14
Sphygmomanometer	220	6	72	296	3	21	161	0	56	137	0	14
Stethoscope	297	4	72	453	3	21	199	0	57	199	0	14
Combined otoscope /laryngoscope complete set	120	15	72	120	8	21	58	10	61	20	4	15
Dressing Set (scissors, needle holder, forceps, gauze)	148	8	72	186	5	21	80	5	60	69	1	14
Pulse Oximeter	87	21	75	185	7	21	62	9	63	72	1	15
Oxygen cylinders	104	22	74	1045	5	21	69	14	60	205	1	15
Nebulizer	148	4	72	231	3	21	67	8	57	72	2	14
Dry Sterilizer	68	15	74	85	3	21	38	11	64	26	2	15
Autoclave	31	35	74	50	10	21	21	18	68	20	3	15
ECG	57	20	75	66	13	21	34	11	60	27	2	15
Ultrasound	77	16	75	100	6	21	47	10	56	32	3	14
Crush cart	71	26	75	129	12	23	27	20	69	34	5	15
Electrosurgical Unit	6	58	76	67	24	25	3	31	69	23	4	15
Weight scale for adult	143	11	73	82	6	22	77	6	56	43	0	15
Ambu bag (Paediatric and Adult)	53	25	84	296	6	21	51	18	65	121	2	15
Suction machine	52	19	84	211	5	21	41	15	66	86	1	15
Operating tables	1	51	85	105	21	21	4	30	69	32	2	15
Minor surgical sets	122	18	76	298	9	21	49	13	64	82	1	15
Anaesthesia machines	1	51	85	102	20	21	3	32	69	32	1	15
DC Shock machine/ De-fibrillator	20	37	85	74	14	21	10	27	67	27	3	15
Infusion pumps	5	47	85	139	21	24	7	31	71	41	6	15
Medical compressor	11	42	85	30	22	26	12	23	69	4	10	15
Fixed operation lamps	31	48	87	84	22	22	0	32	69	38	3	16
Portable operation lamps	9	44	86	56	21	22	13	28	67	18	4	15

## 8. Availability of Specialized Equipment (Hospitals and PHC)

**Table 4: Number of specialized Equipment (Hospitals and PHC)**

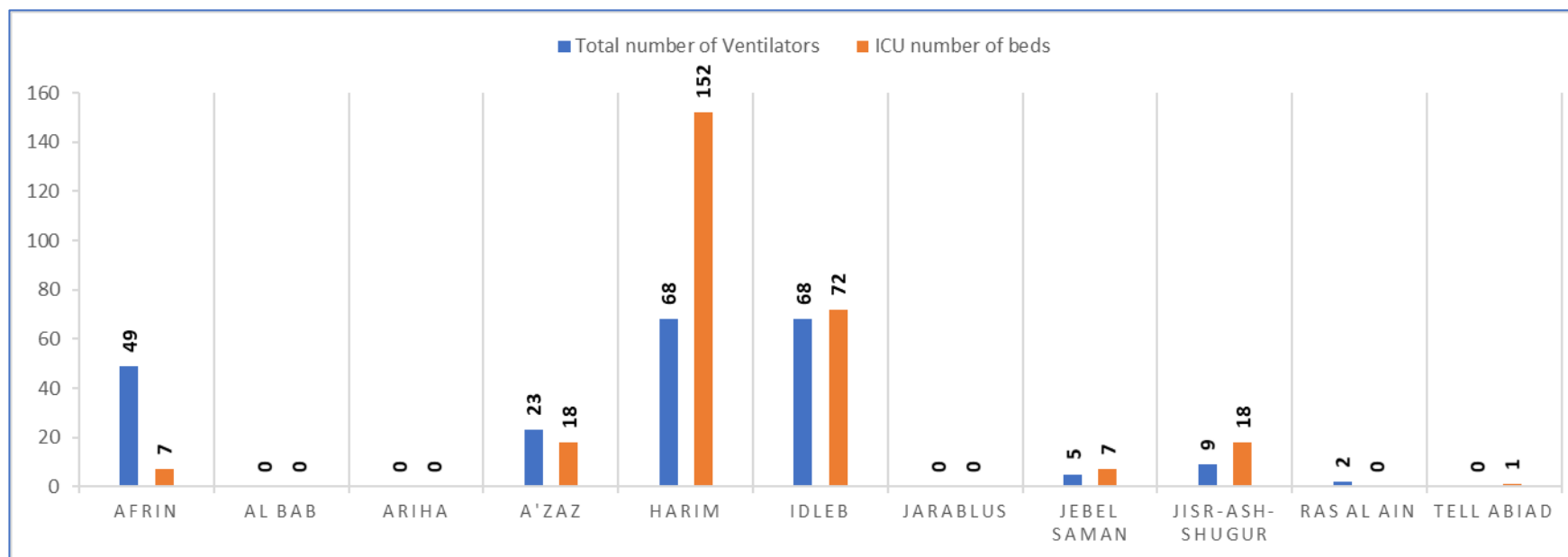
Specialized Equipment Name	Aleppo	Idleb	Grand Total
Renal dialysis machine	16	26	42
Mammography	0	3	3
Doppler	15	32	47
CT Scanner	1	2	3
MRI machine	1	1	2
Cardiotocography (Monitoring of fetal heart frequency)	18	30	48
Ventilators for children	19	35	54
Ventilators for adults	58	58	116
Electromyography EMG	2	4	6
Electro-encephalograph (EEG)	1	5	6
Gastroscope, Flexible	0	4	4
Bronchoscope, Flexible	2	2	4
Endoscopy Surgery (General Set)	5	18	23
Ophthalmic Operating Microscope	3	6	9
Ophthalmology Unit	3	3	6
Direct Ophthalmoscope	1	4	5
Indirect Ophthalmoscope	1	5	6
Lensometers	5	4	9
Ophthalmic Laser, Argon	1	1	2
Ophthalmic Laser, Nd: Yag	0	1	1
Cryosurgical Unit, Ophthalmic	0	2	2
Auto-Refractometer Keratometer	0	1	1
Physiologic Monitoring System, Stress Exercise, Cardiac	0	23	23
Uretero-Renoscope "Flexible	0	2	2
C-arm X-Ray machine (Only for orthopedics and neurosurgeries)	4	24	28
Portable V-scan	5	11	16
ICU/CCU Monitors	87	161	248
Intensive Phototherapy	15	36	51
Drills (orthopedic)	14	41	55
Skull drills	2	3	5
Safe / Clean delivery kit	31	51	82
Vaginal examination set	66	170	236
Fetoscope	19	60	79
Delivery table	54	79	133
Weight scale for infants	69	119	188
Infant incubator	106	205	311

## 9. COVID-19 Hospitals/isolation centers Equipment and Staff

The below table showing the Hospitals/Isolation centers Equipment in NWS

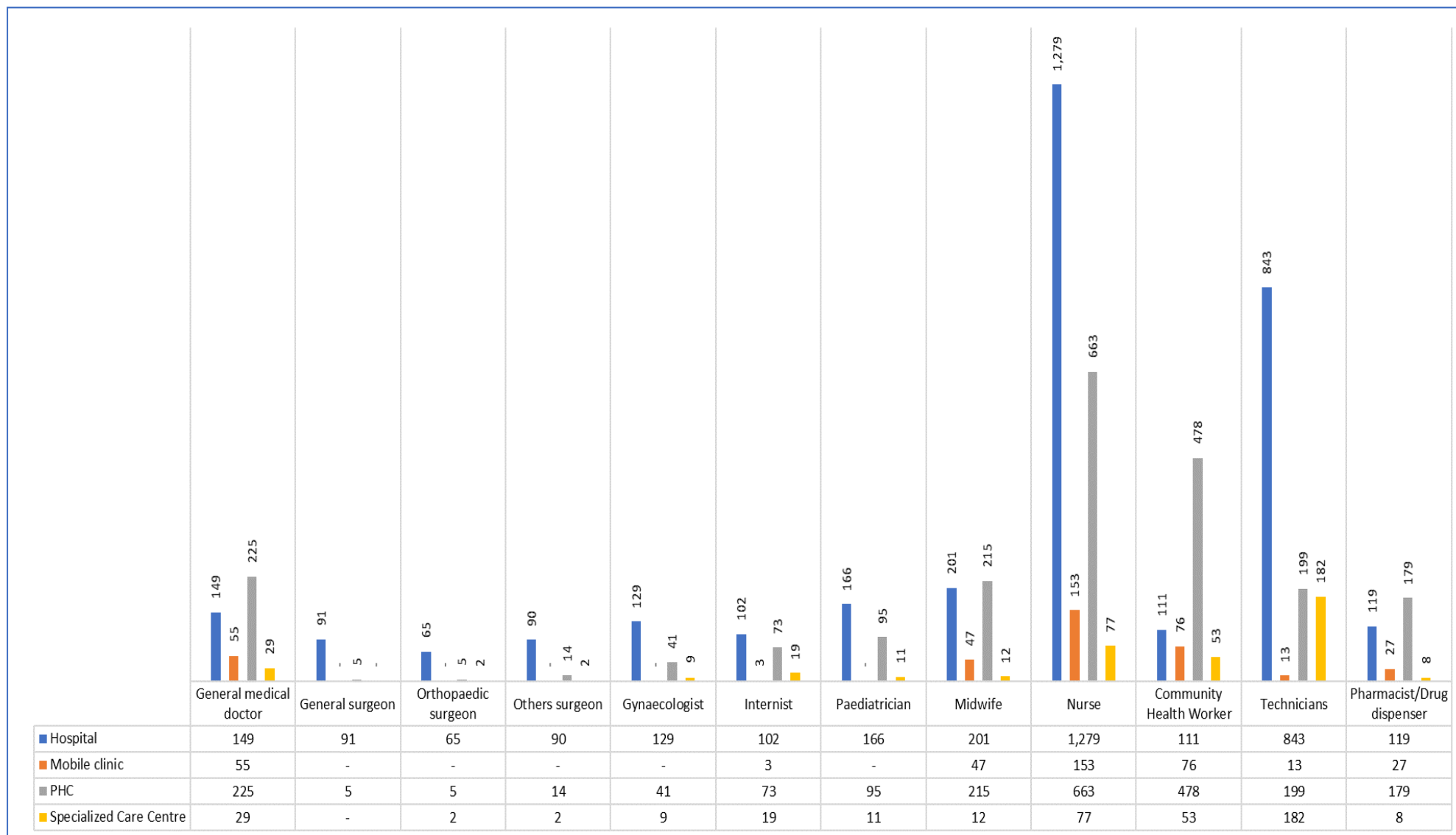
Items	Health Partners Hospitals	Turkish support Hospitals	Grand Total
	TOTAL	Aleppo	
# COVID-19 Hospitals	6	2	8
# CCTCs	26	NA	26
#Doctors	116	43	159
#Nurses	292	328	620
#Ward beds	907	400	1,307
#ICU beds	142	74	216
Oxygen cylinders	40	N/A	40
Ventilators	155	26	181

Figure 12(A.B): Availability ICU Beds and Ventilators per districts



## 10. Availability of Health Staff

Figure 13: Available Health Staff by Health Facilities



**Figure 14: Number of Full time Health Staff per Types of Health Facility**

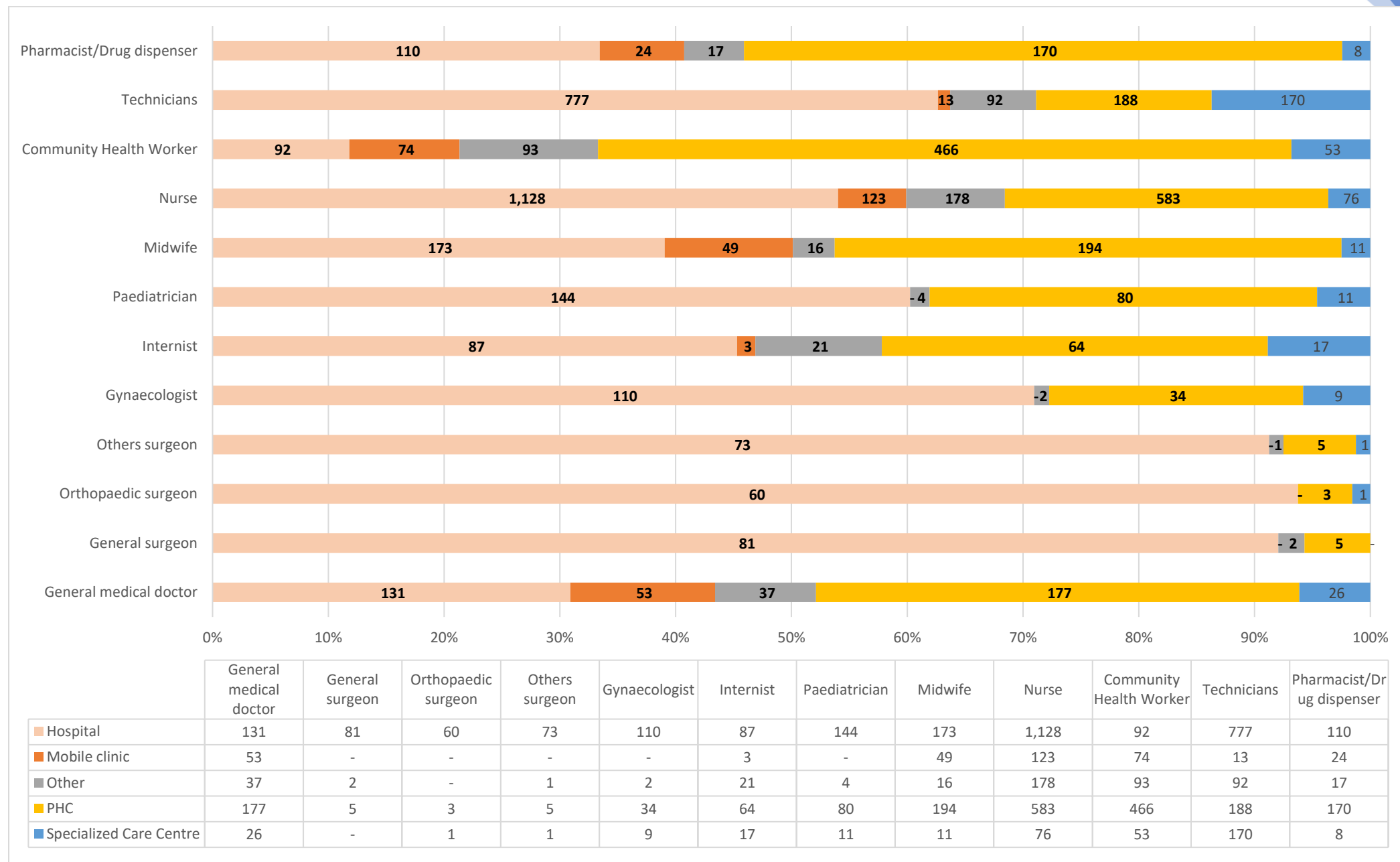


Table 6: Distribution of health staff by districts/populations (Aleppo/Idleb)

Governorate	District	*Population	Hospital	Mobile clinic	Other	**PHC	Specialized Care Centre	General medical doctor	General surgeon	Orthopaedic surgeon	Others surgeon	Gynaecologist	Internist	Paediatrician	Midwife	Nurse	Community Health Worker	Technicians
Aleppo	Afrin	421,087	4	13	7	27	4	58	6	3	9	15	16	27	63	167	95	88
	Al Bab	236,961	2	4	2	8	6	8	0	1	0	17	10	14	35	79	28	37
	A'zaz	541,263	11	9	8	27	10	47	10	4	4	21	20	31	49	230	81	156
	Jarablus	105,927	1	1		8	4	3	0	0	0	3	2	9	10	24	20	22
	Jebel Saman	218,578	12	14	4	38	7	22	9	6	2	6	14	12	32	132	41	88
Total		1,523,816	30	41	21	108	31	138	25	14	15	62	62	93	189	632	265	391
Idleb	Ariha	169,236	9	2	2	14	6	6	0	0	0	3	1	6	12	49	17	18
	Harim	1,544,234	29	30	13	60	18	170	34	27	26	48	62	79	134	710	203	491
	Idleb	656,784	17	23	13	40	13	72	18	12	29	32	54	44	70	524	217	257
	Jisr-Ash-Shugur	302,865	7	5	1	22	3	24	11	11	8	9	12	13	30	134	65	72
Total		2,673,119	62	60	29	137	40	272	63	50	63	92	129	142	246	1,417	502	838
Grand Total		4,196,935	92	101	50	245	71	410	88	64	78	154	191	235	435	2,049	767	1,229

\*Source for population: Population taskforce Aug 2020, population estimated for the area of Turkey hub operation.

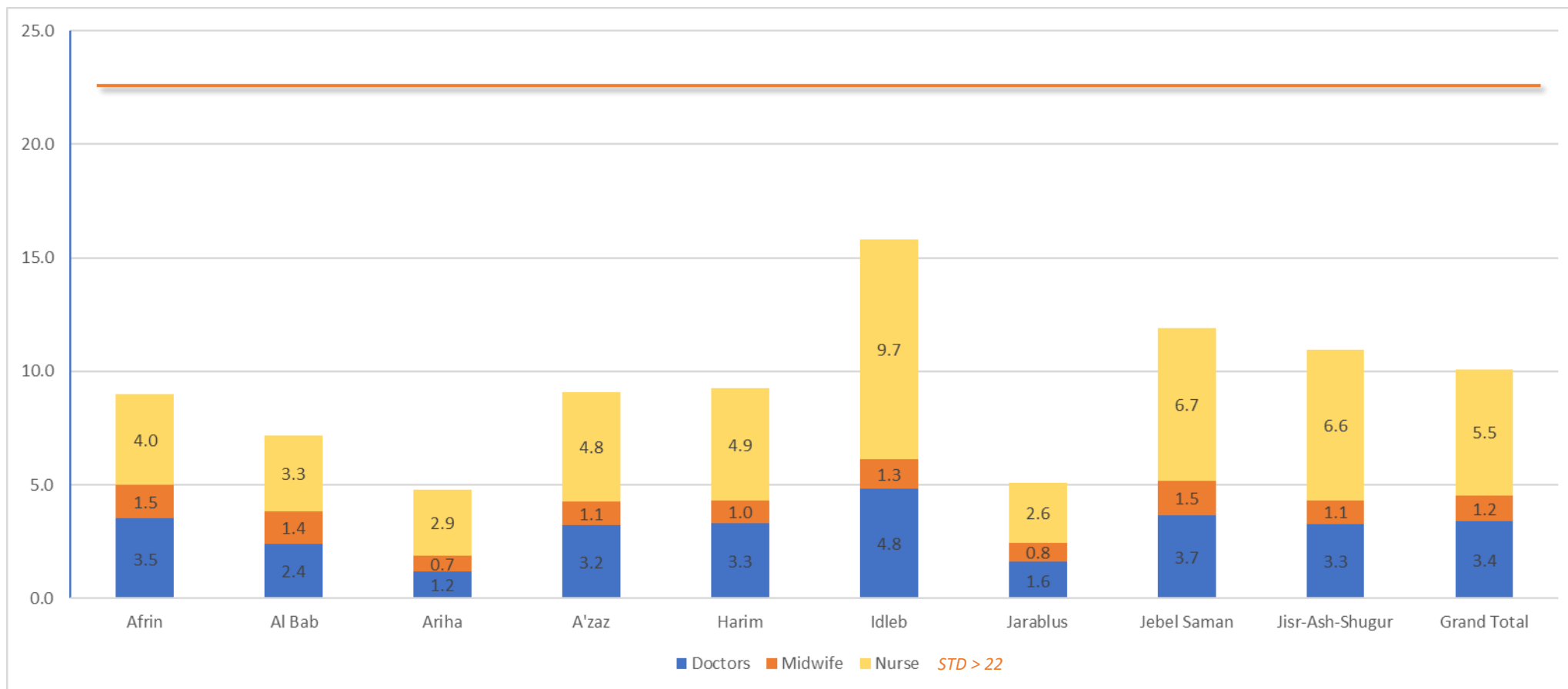
\*\*PHC: Total of the 3 levels of fixed PHCs (Comprehensive Health Centre, Health Centre and health unit)

\*\*\*Health staff figures represent total of health staff reported working in the health facilities, and not represent total number of health staff as one staff may work on more than one health facilities.

## 11. Global health indicators and benchmarks for Aleppo and Idleb

a. Number of health workers (medical doctors + nurse + midwife) per 10,000 population, by district (benchmark >22 HWs for 10,000 population)

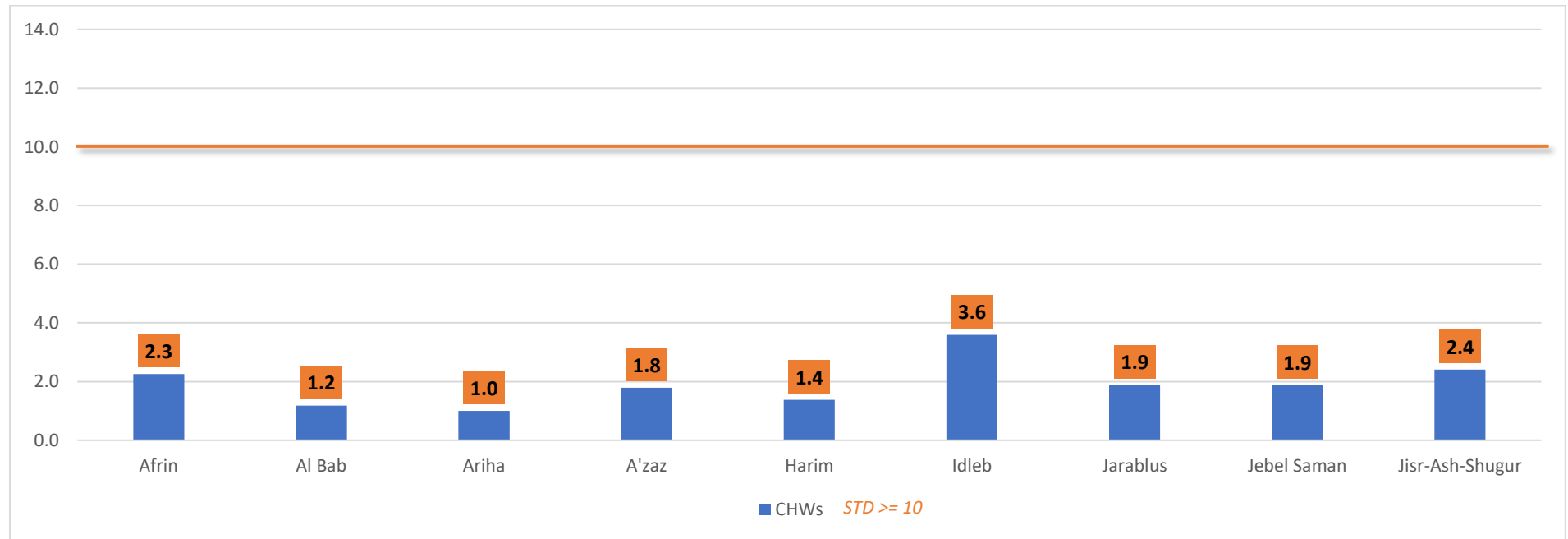
Figure 15: Health Workers /10,000 Population (benchmark >22 HWs for 10,000 population)





b. Number of Community health workers per 10,000 population, by district (benchmark  $\geq 10$  CHWs for 10,000 population)

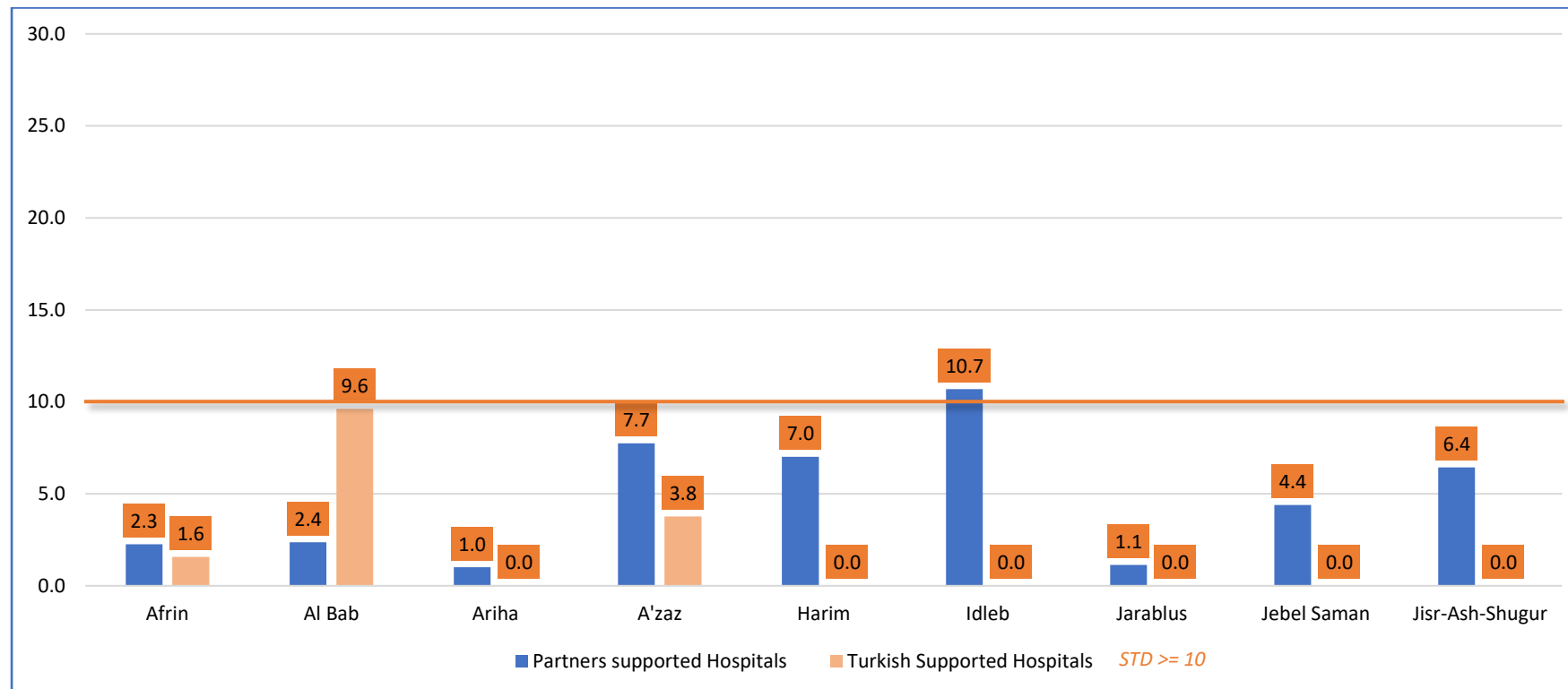
Figure 16: Community health workers (CHWs) /10,000 Population (benchmark  $\geq 10$  CHWs for 10,000 population)



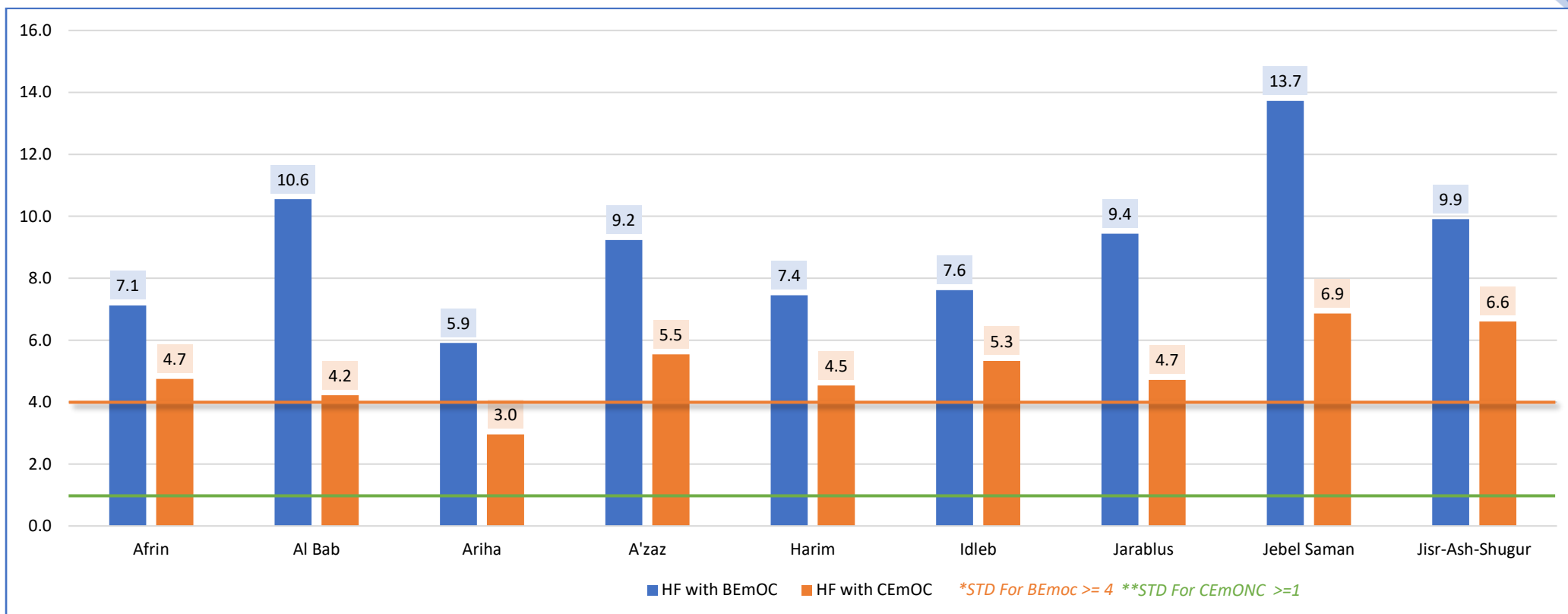
c. Number of hospital beds per 10,000 population (inpatients & maternity), by district (benchmark  $\geq 10$  beds for 10,000 population)

Governorate	District	Total beds/partners	Total Beds Turkish Supported
Aleppo	Afrin	95	66
Aleppo	Al Bab	56	228
Aleppo	A'zaz	419	204
Aleppo	Jarablus	12	-
Aleppo	Jebel Saman	96	-
Idleb	Ariha	17	-
Idleb	Harim	1,082	-
Idleb	Idleb	702	-
Idleb	Jisr-Ash-Shugur	195	-
Total		2674	498

Figure 17: Hospital Beds /10,000 Population (benchmark  $\geq 10$  beds for 10,000 population)



d. Number of HF with Basic Emergency Obstetric Care/ Comprehensive Emergency Obstetric Care By District

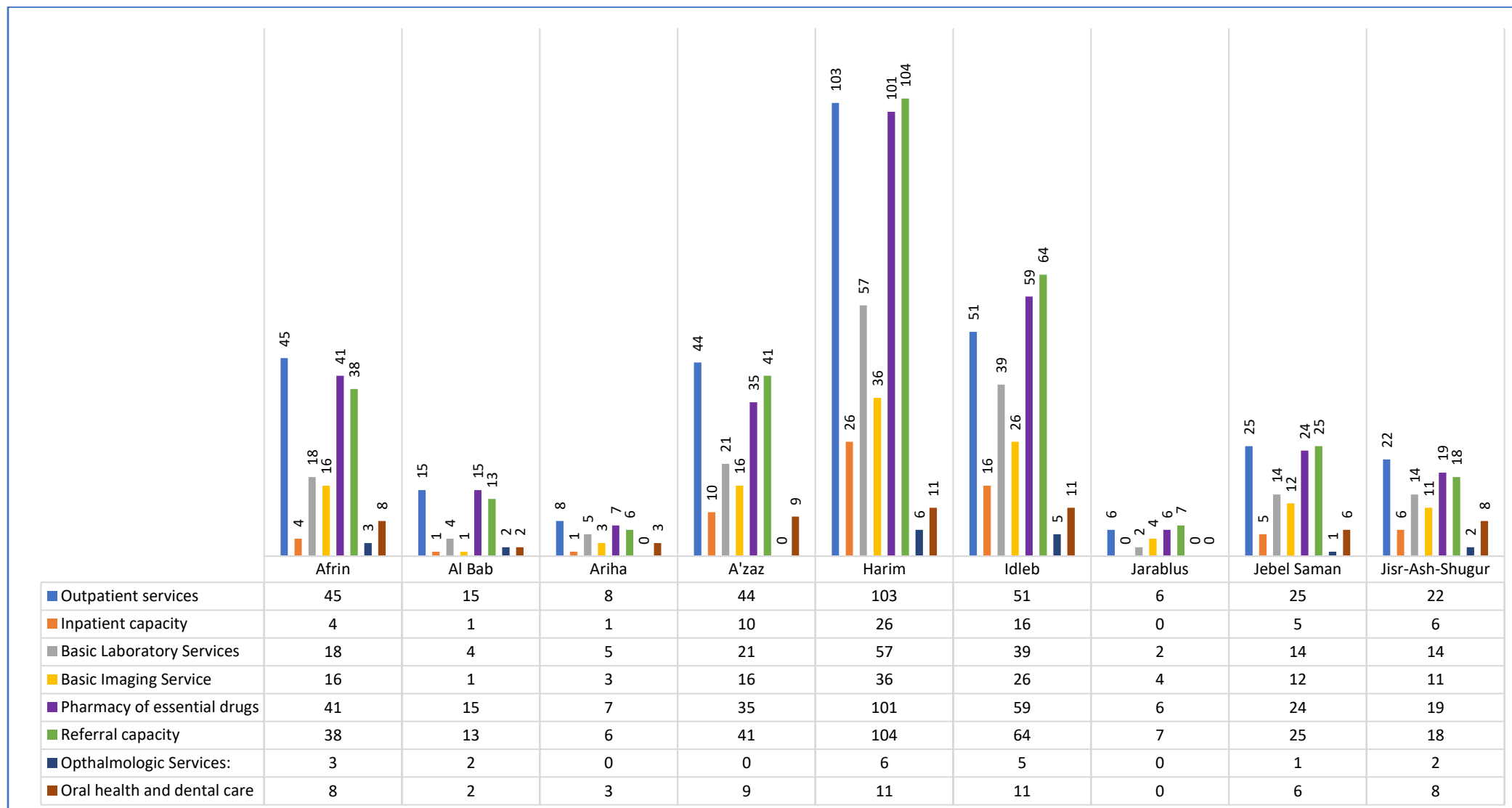


\*HF with BEmOC/500,000 Population (benchmark >= 4 BEmOC for 500,000)

\*\*HF with CEmOC/500,000 Population (benchmark >= 1 CEmOC for 500,000)

## 12. Provision of General Clinical Services

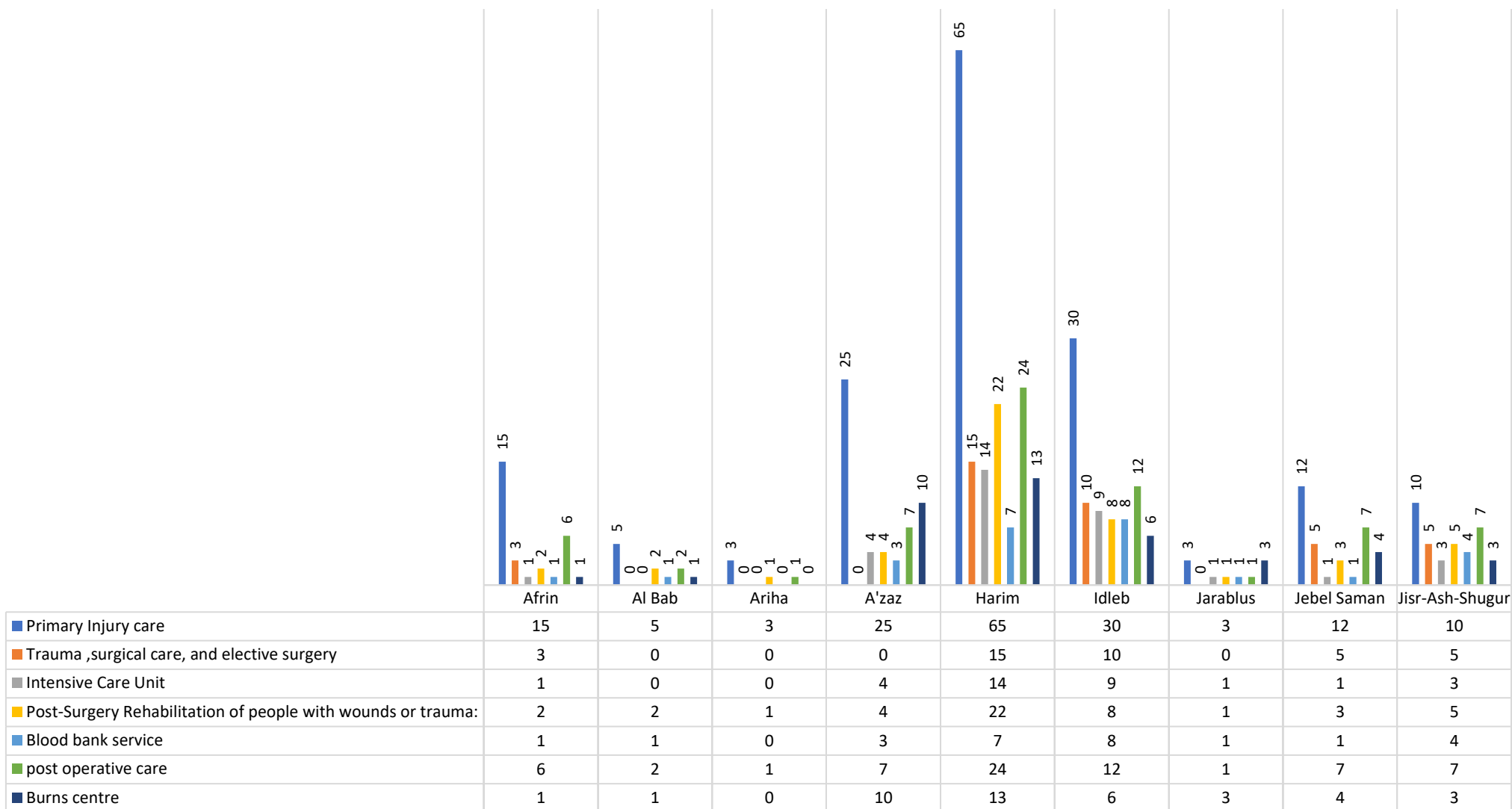
Figure 20: Availability of health facilities providing General Clinical Services By District



**Basic Laboratory** =CBC, urine analysis, stool microscopy, sputum microscopy; **Basic Imaging**=X-Ray and Ultrasound; **Referral capacity**= Referral procedures, means of communication, safe transportation

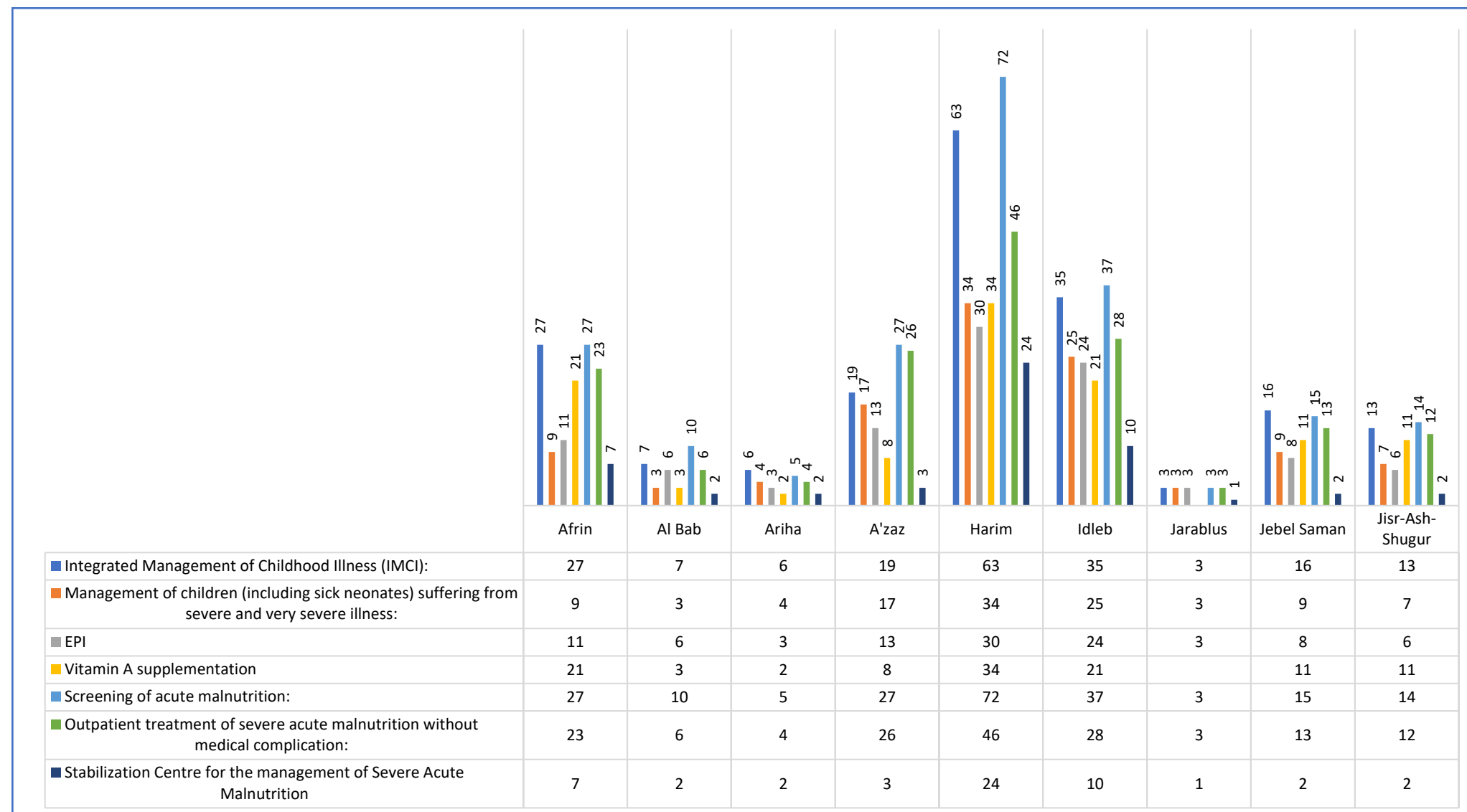
### 13. Provision of Surgery and secondary health care health Services

Figure 21: Availability of health facilities providing Surgery and health care health Services By District



## 14. Provision of child health services

Figure 22: Availability of health facilities providing child health services

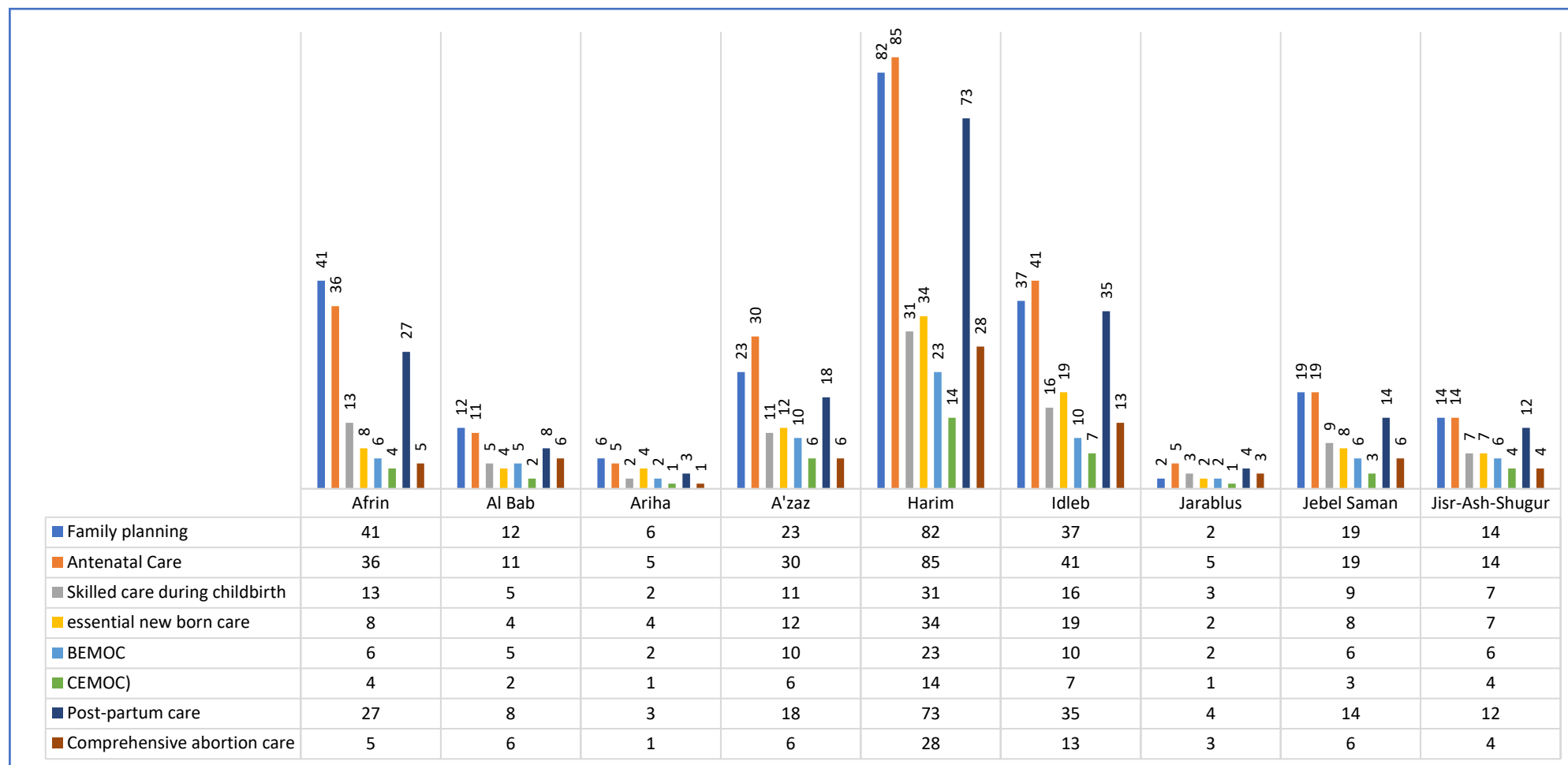


**Integrated Management of Childhood Illness (IMCI)** is an integrated approach to child health that focuses on the well-being of the whole child. IMCI aims to reduce death, illness and disability, and to promote improved growth and development among children under five years of age. **Screening of acute malnutrition:** MUAC or Weight for Height, and/or bilateral pitting edema

**EPI:** Routine vaccination against all national target diseases and adequate cold chain in place

## 15. Provision of Maternal and Newborn Health services

Figure 23: Availability of health facilities providing Maternal and Newborn Health services



**Antenatal Care:** Assess pregnancy, birth and emergency plan, respond to problems (observed and/or reported), advise/counsel on nutrition & breastfeeding, self-care and family planning, preventive treatment(s) as appropriate

**new-born care includes:** Basic new-born resuscitation + warmth (recommended method: Kangaroo Mother Care - KMC) + eye prophylaxis + clean cord care + early and exclusive breast feeding

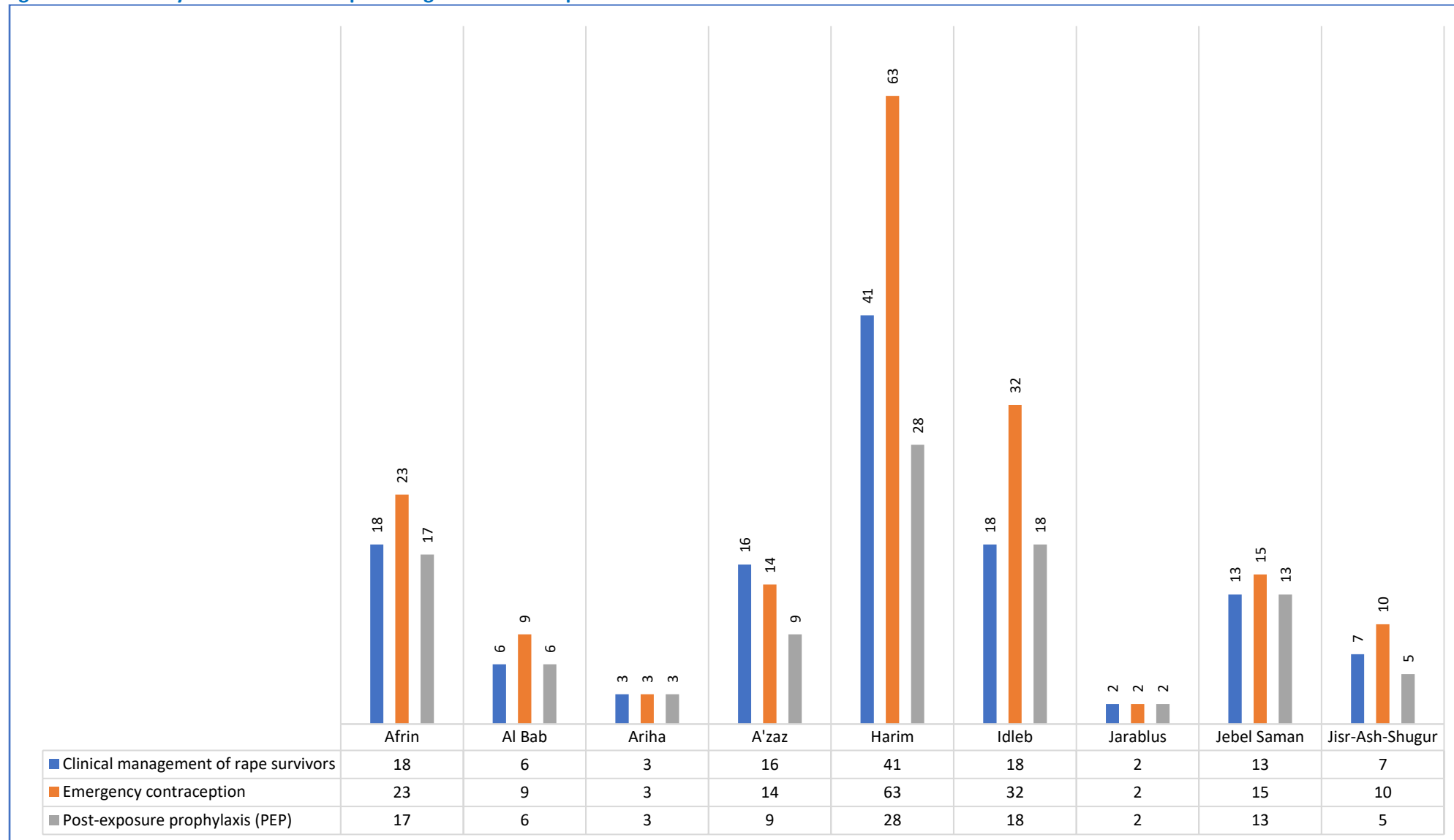
**Basic Emergency Essential Obstetric Care (BEMOC)** package includes Parenteral antibiotics + oxytocic/anticonvulsant drugs + manual removal of placenta + removal of retained products with manual vacuum aspiration (MVA) + assisted vaginal delivery 24/24 & 7/7

**Comprehensive emergency obstetric care (CEMOC)** includes BEmONC +surgery+ anesthesia+ blood transfusion.

**Comprehensive abortion care** Safe induced abortion, uterine evacuation using MVA or medical methods, antibiotic prophylaxis, treatment of abortion complications, counselling for abortion and Comprehensive abortion care post-abortion contraception

## 16. Provision of services in response to sexual violence

Figure 24: Availability of health facilities providing services to response to sexual violence



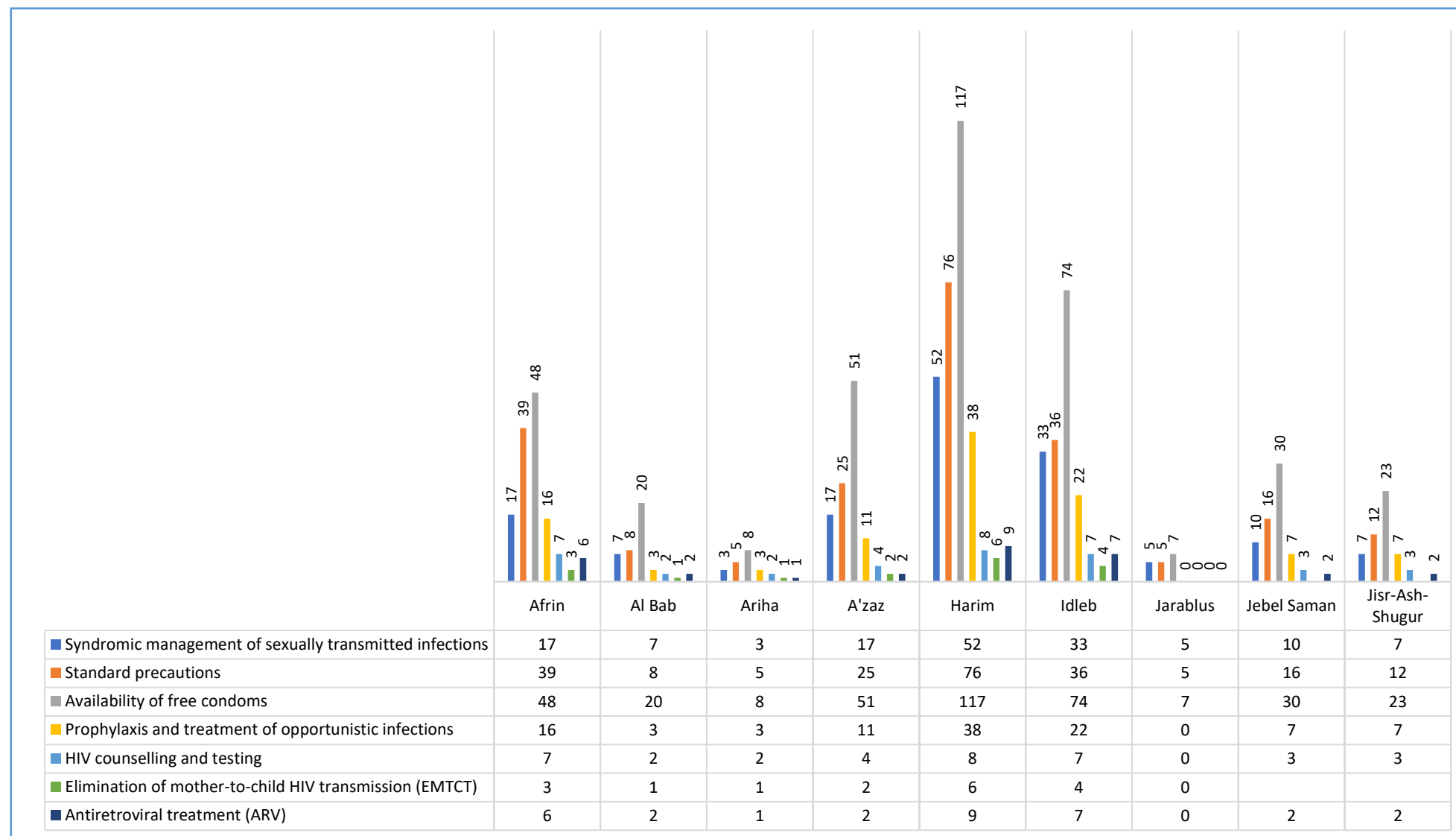
**Clinical management of rape survivors:** Including psychological support

**Post-exposure prophylaxis (PEP):** Post exposition prophylaxis of STIs including hepatitis B and HIV infection



## 17. Provision of STI & HIV/AIDS

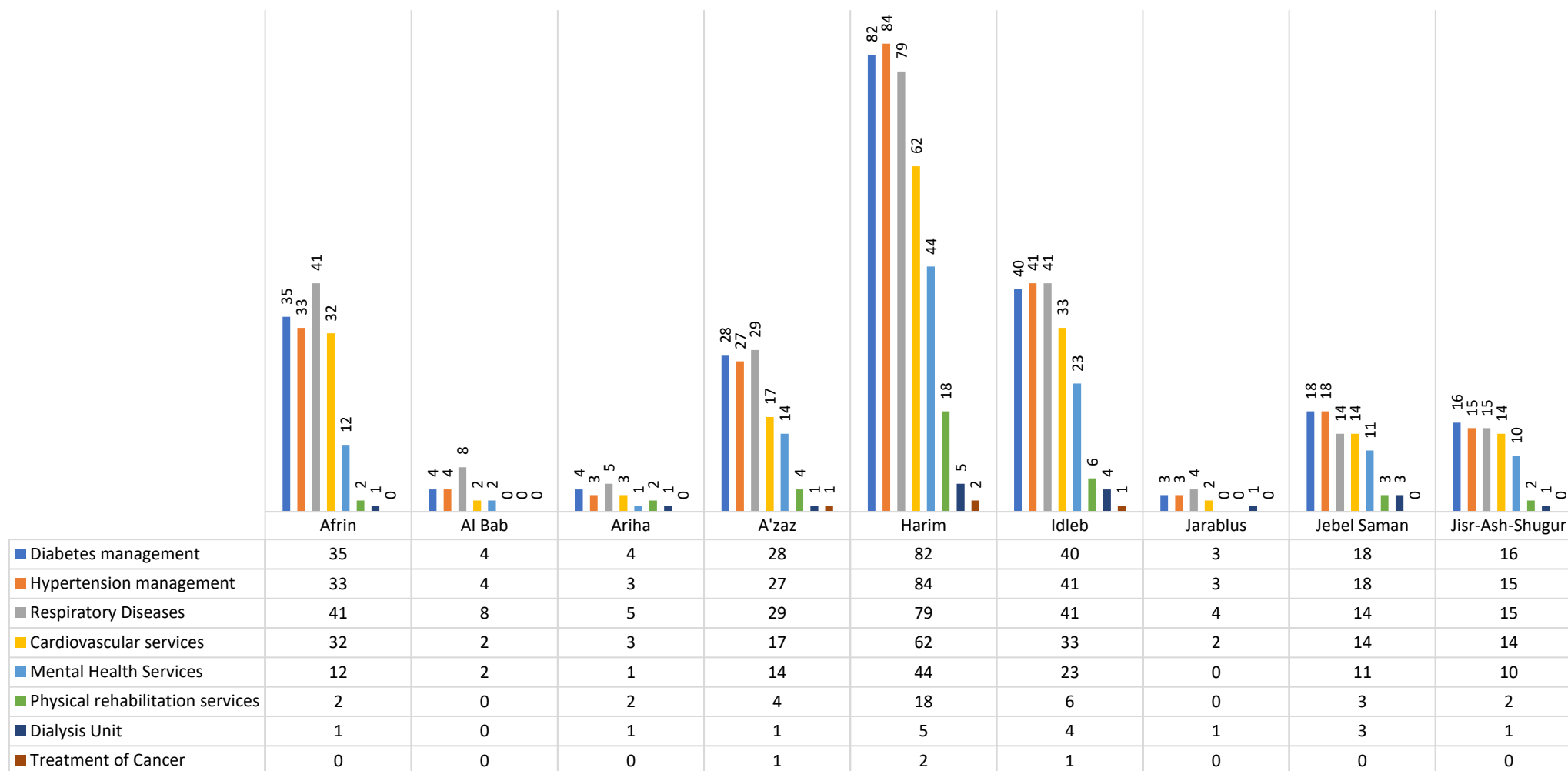
Figure 25: Availability of health facilities providing STI & HIV/AIDS services By District



\***Standard precautions:** Disposable needles & syringes, safety sharp disposal containers, Personal Protective Equipment (PPE), sterilizer, hand hygiene

## 18. Provision of treatment for non-communicable diseases and mental health

Figure 26: Availability of health facilities providing non-communicable diseases and mental health services

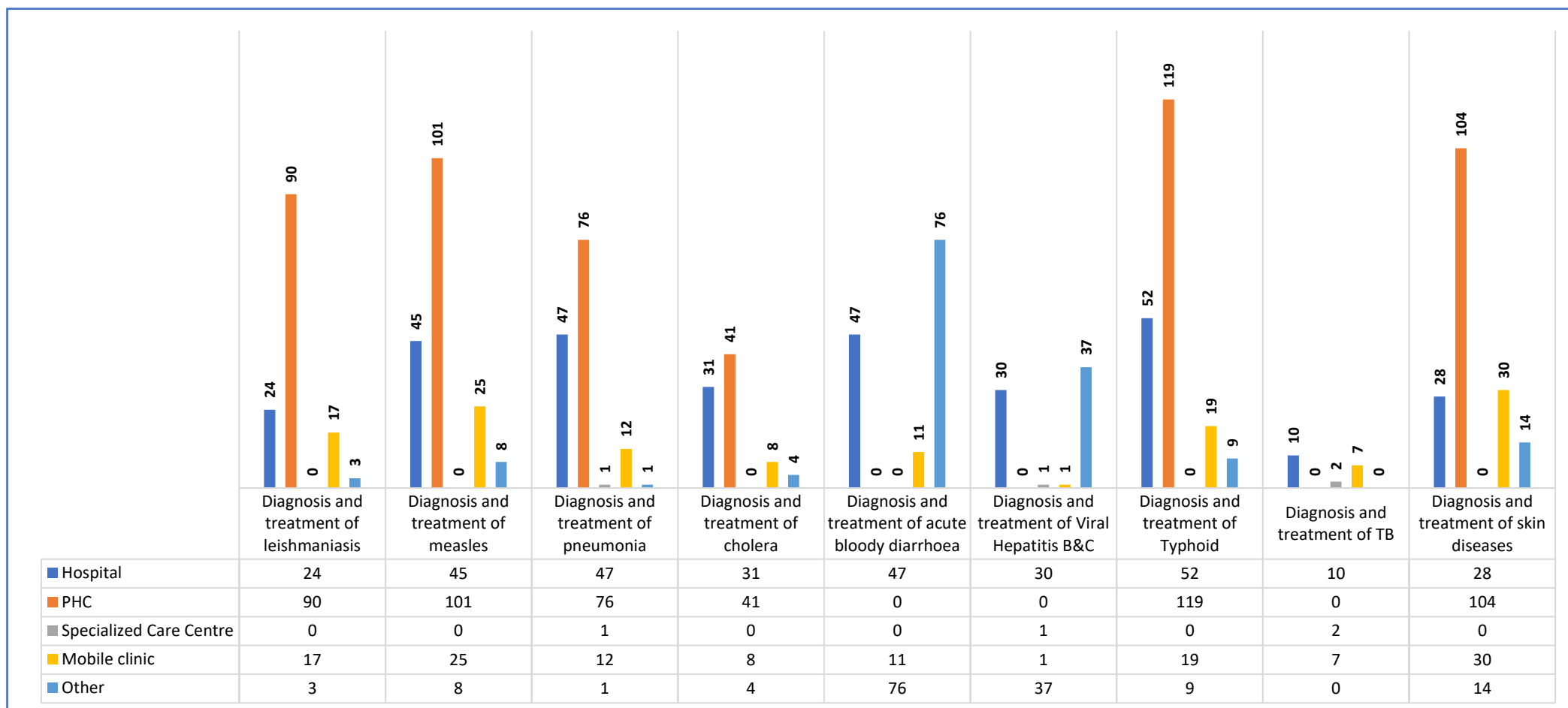


**Physical rehabilitation service:** Disabilities rehabilitation & support;

**Mental Health Care:** Support of acute stress and anxiety, front line management of common and severe mental disorders

## 19. Provision of diagnosis and treatment for communicable diseases

Figure 27: Availability of health facilities providing diagnosis and treatment for communicable Diseases



## 20. Provision of Outreach activities (Community base) health services

Figure 28: Availability of health facilities providing Outreach (Community base) health services

