HeRAMS
Annual Report
January - December 2018
Public Health Centres in the Syrian Arab Republic
Public Health Centres in the Syrian Arab Republic

World Health Organization
Health Resources and Services Availability Monitoring System
Syrian Arab Republic
This is to acknowledge that the data provided in this report is a product of joint collaboration between the World Health Organization and Ministry of Health in the Syrian Arab Republic. The report covers the months of January to December 2018.

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Introduction

HeRAMS is a global health information management tool (for mapping, collection, collation and analysis of information on health resources and services) that aims to provide timely, relevant and reliable information for decision-making. It is used to guide interventions at the primary and secondary care levels, measure gaps and improve resource planning, ensure that actions are evidence-based, and enhance the coordination and accountability of WHO and other health sector partners.

HeRAMS in Syria is a World Health Organization (WHO) project that aims at strengthening the collection and analysis of information on the availability of health resources and services in Syria at health facility level. A team of national health staff from all governorates was formulated for HeRAMS reporting, and different data collection mechanisms were introduced to address the shortage of timely and relevant information. The main HeRAMS tool for collecting data is a questionnaire that assesses the functionality status, accessibility, health infrastructure, human resources, availability of health services, equipment and medicines at primary and secondary care level.

Executive summary

Regular assessments to monitor the impact of the crisis on the health facilities functionality, accessibility, condition status, availability of resources and services, are conducted using HeRAMS (Health Resources & services Availability Monitoring System) tool.

This report provides descriptive and trend analysis of the situation of the public health centres of MoH (Ministry of Health), in terms of functionality status, accessibility, and infrastructure, availability of resources & services, and available equipment and medicines during the 4th Quarter 2018 in comparison to other three quarters of 2018. The total assessed health centres in the 4th Quarter 2018 is 1,811.

Completeness of Centre’s reporting
The completeness of reporting of public health centres across Syria still 99.83% during the four quarters of 2018.

Functionality status
By end of the 4th Quarter 2018 and out of 1,811 assessed public health centres, 46% (833) were reported fully functioning, 22% (389) partially functioning, 32% (586) non-functioning (completely out of service), while the functionality status of 0.2% (3) of health centres were unknown.

Accessibility status
By end of the 4th Quarter 2018, 83% (1,497) health centres were reported accessible, 1% (19) hard-to-access, and 16% (289) were inaccessible, while the accessibility status of 0.3% (6) health centres were unknown.
Infrastructural patterns
By end of the 4th Quarter 2018, 31% (560) health centres were reported damaged [7% fully damaged and 24% partially damaged], 64% (1,158) were reported intact, while the building’s condition of 5% (93) health centres were unknown.

Assessing the availability of water sources at functional public centres indicated that 81% (987) are using main pipelines, 2% (19) are mainly using wells, while 6% (78) are using both (main pipeline and well).

Electricity power is widely disrupted nationwide and majority of public health centres are dependent on generators’ power.

Human resources
By end of the 4th Quarter 2018, the proportions of different categories of health staff among the total functional (fully and partially) health centres (1,222 /1,811), remained almost the same as 3rd Quarter 2018. The pharmacists represented (1%) of total health staff at centres’ level, along with resident doctors (2%) followed by general practitioners (4%); laboratory (6%); Specialist (7%); dentists (10%); midwives (12%); and nurses (58%).

Trend analysis of available number of medical doctors during 2018 has shown slight decline from 1st quarter to 4th quarter. In functional public health centres the number of medical doctors (a total of General practitioner, Specialists, Resident Doctors, and Dentists) has slightly decreased by 0.2% by end of December 2018 (4,391) compared to end of Mar 2018 (4,402).

Availability of health services
The availability of core health services is monitored through HeRAMS at health centre’s level, considering a standard list of health services [includes: General clinical services and essential trauma care, Child Health, Nutrition, Communicable Diseases, Sexual & Reproductive Health, Non-communicable Diseases and Mental Health].

As a result of disrupted healthcare delivery, limited provision of many health services, even within the functional health centres were observed.

Availability of medical equipment
Analysis of availability of essential equipment has been measured across all functioning health centres [fully and partially functioning] (1,222 /1,811), in terms of functional equipment out of the total available equipment in the health centre. The produced analysis provides good indication of the current readiness of the health centres to provide the health services, and also to guide focused planning for procurement and distribution of equipment and machines, to fill-in identified gaps that were observed even within the functional health centres.

Availability of priority medicines
Availability of medicines and consumables at health centres’ level has been evaluated based on a standard list of identified priority medicines and medical supplies for duration of one quarter. Gaps of medicines and medical supplies are identified even within the functional health centres.
1. Completeness of reporting

The completeness of reporting of public health centres across Syria still 99.83% during the four quarters of 2018.

The classification of health centres (1,811) per type is presented in [Figure 2], of which the majority is primary healthcare centres (86%), followed by medical points (7%), specialized centres (5%), and comprehensive/ polyclinics (2%).

The levels of completeness of reporting of health centres at governorate level are presented in [Figure 3].

**Figure 1: Completeness of reporting, 4th Quarter 2018**

- Reported: 1808
- Gap: 3

**Figure 2: Classification of centres, 4th Quarter 2018**

- Primary Health Care Center: 1554
- Comprehensive Clinic: 44
- Medical Point: 123
- Specialization Center: 90
Functionality of the health centres has been defined and assessed at three levels:

- **Fully Functioning**: A health centre is open, accessible, and provides healthcare services with full capacity (i.e., staffing, equipment, and infrastructure).

- **Partially functioning**: A health centre is open and provides healthcare services, but with limited capacity (i.e., either shortage of staffing, equipment, or damage in infrastructure).

- **Not functioning**: A health centre is out of service, because it is either fully damaged, inaccessible, no available staff, or no equipment.

By end of the 4th Quarter 2018 and out of 1,811 assessed public health centres, 46% (833) were reported fully functioning, 22% (389) partially functioning, 32% (586) non-functioning (completely out of service), while the functionality status of 0.2% (3) of health centres were unknown [Figure 4].

Detailed analysis on the functionality status of the health centres at governorate level is shown in [Figure 5] and [Map 1].
Figure 4: Functionality Status - 4th Quarter 2018

- Fully Functioning: 833
- Partially Functioning: 389
- Non Functioning: 586
- No Report: 3

Figure 5: Functionality status of health centres per governorate, 4th Quarter 2018
The number of non-functioning health centres is still high 625 in 4th Quarter of 2018 [Figure 6] and [Map2], as a direct impact of deteriorating security situation.

Figure 6: Trend analysis of functionality status, between 1st Quarter 2014 and 4th Quarter 2018
Map 2: Trend analysis of functionality status of public health centres, 1st quarter to 4th Quarter 2018
3. Density of the public health centres

Health centres density reflects the total number of health centres relative to population size (based on OCHA HRP 2018), which helps measure physical access to outpatient health care services. Comparing with Sphere standards for health centres (50,000), two governorates (Aleppo and Idleb) are over the standard density reference; due to high number of population against the available functioning public health centres [Figure 7].
4. Accessibility status

Accessibility to health centres is defined at three levels:
• **Accessible**: A health centre is easily accessible for patients and health staff.
• **Hard-to-reach**: A health centre is hardly reached, due to security situation or long distance.
• **Inaccessible**: A health centre is not accessible because of the security situation, or a centre is accessible only to a small fraction of the population, or military people (inaccessible to civilians).

By end of the 4th Quarter 2018, 83% (1,497) health centres were reported accessible, 1% (19) hard-to-access, and 16% (289) were inaccessible, while the accessibility status of 0.3% (6) health centres were unknown [Figure 8].

Detailed analysis on the accessibility status of the health centres at governorate level is presented in [Figure 9] and [Map 3].

**Figure 8: Accessibility status, 4th Quarter 2018**

<table>
<thead>
<tr>
<th>Status</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1497</td>
</tr>
<tr>
<td>Hard to access</td>
<td>19</td>
</tr>
<tr>
<td>No</td>
<td>289</td>
</tr>
<tr>
<td>No report</td>
<td>6</td>
</tr>
</tbody>
</table>

By end of the 4th Quarter 2018, 83% (1,497) health centres were reported accessible, 1% (19) hard-to-access, and 16% (289) were inaccessible, while the accessibility status of 0.3% (6) health centres were unknown [Figure 8].

Detailed analysis on the accessibility status of the health centres at governorate level is presented in [Figure 9] and [Map 3].

**Figure 9: Accessibility status of the health centres per governorate, 4th Quarter 2018**
The trend analysis of accessibility status of health centres from 1\textsuperscript{st} Quarter 2014 to 4\textsuperscript{th} Quarter 2018 is presented in Figure 10.

**Figure 10: Trend analysis of accessibility status of health centres between 1\textsuperscript{st} Quarter 2014 and 4\textsuperscript{th} Quarter 2018**

The number of inaccessible health centres is still high 289 in 4\textsuperscript{th} Quarter 2018.

**Map 3: Accessibility to public health centres, 4\textsuperscript{th} Quarter 2018**
5. Infrastructural patterns

The following sub-sections provide analysis on infrastructural patterns of health centres, including building’s condition, water sources, availability of electricity generators, and availability of refrigerators.

5.1 Level of damage of the health centres’ buildings

The level of damage to health centres’ buildings was measured at three levels:

- **Fully damaged**: either, all the building is destroyed, about 75% or more of the building is destroyed, or damage of the essential services’ buildings.
- **Partially damaged**: part of the building is damaged.
- **Intact**: there is no damage in the building.

Analysis of the level of damage provides good indication on the potential costs for reconstruction.

By end of the 4th Quarter 2018, 31% (560) health centres were reported damaged [7% fully damaged and 24% partially damaged], 64% (1,158) were reported intact, while the building’s condition of 5% (93) health centres were unknown [Figure 11].

The completeness of reporting level of damage of health centres has increased slightly in the 4th Quarter to reach 94.9%, compared to 93.9% at the end of 3rd Quarter 2018.

Key gaps on reporting the level of damage of the health centres are observed mainly in Aleppo 22% (49/227) and Idleb 11% (13/114).

Detailed analysis of the damage status of the health centres at governorate level is presented in [Figure 12] and [Map 4].
Figure 12: level damage of the health centres per governorate, 4th Quarter 2018

Map 4: Distribution and Level of damage of the public health centres, 4th Quarter 2018
It is essential to cross-analyze the infrastructural damage of the public health centres in relation to the functionality status (i.e. provision of services). Some health centres have resiliently continued to provide services regardless of the level of damage of the building and by optimizing intact parts of the building or in a few cases operating from other neighboring facilities. The national figures translate as follows:

- Out of the 434 partially damaged health centres, 170 health centres were reported partially functioning and 243 out of service (non-functioning), the functionality status of 1 health centre was unknown, while 20 health centres were reported to be fully functioning providing all services through salvaging medical equipment from the damaged section of the health centre with full staffing capacity.

- Out of the 126 fully damaged health centres, 96 were reported non-functioning, 1 health centre reported fully functioning from other nearby temporary location, and 29 health centres have opted for innovative ways to continue providing health services to populations in need through partially functioning from other nearby temporary locations and provide health services with limited staff capacity and resources. More details of the 29 health centres are available in the HeRAMS database.

- Then again, health centres with intact buildings (1,158 health centres) does not directly reflect full functionality, only 812 of the 1,158 intact health centres are fully functioning, the functionality status of 1 health centre was unknown, while 190 are partially functioning and 155 health centres are not functioning at all, due to limited access of patients and health staff to the facilities resulting from the dire security situation as well as critical shortage of supplies.

The trend analysis of infrastructural damage of health centres from 1st Quarter 2014 to 4th Quarter 2018 is presented in Figure 13.

Figure 13: Trend analysis of buildings’ damage of health centres, between 1st Quarter 2014 and 4th Quarter 2018
5.2 Water sources and functionality status

Availability of water sources at health centres was assessed using a standard checklist of main types of water sources (i.e., main pipeline, well, or both [main pipeline and well]).

By end of the 4th Quarter 2018 and out of 1,222 functional health centres, 81% (987) are using main pipelines, 2% (19) are mainly using wells, while 6% (78) are using both (main pipeline and well) [Figure 14].

Detailed analysis of availability and distribution of water sources at functional health centres is presented at governorate level on [Figure 15].
Functionality status of the water sources was measured at three levels; fully functioning, partially functioning, and not functioning. Figure 16, provides details on functionality status of water sources at functional health centres, (1,222 /1,811) per governorate.

**Figure 16: Functionality status of the water sources at health centres, 4th Quarter 2018**

### 5.3 Availability of electricity generators

Electricity generators become highly demanded with the current situation, where electricity power is widely disrupted and majority of public health centres are dependent on generators’ power. Availability of electrical generators was measured at functional health centres, and presented in [Figure 17].
5.4 Availability of refrigerator for vaccine

Availability of refrigerators for vaccine in health centres is measured through HeRAMS at three levels: available and functioning, available but not-functioning, or not-available. The summary figures of availability of refrigerators in functioning health centres are presented [Figure 18].

The health centres with gap on refrigerators for vaccine, seek support of the area municipality, a nearby school, or a nearby house to store vaccines and medicines.
6. Availability of health human resources

Availability of health human resources has been analyzed across functional health centres considering different staffing categories.

Analysis of proportions of available health staff, by end of the 4th Quarter 2018, within the functional health centres (fully and partially) is shown in [Figure 19].

The pharmacists represented (1%) of total health staff at centres’ level, along with resident doctors (2%) followed by general practitioners (4%); laboratory (6%); Specialist (7%); dentists (10%); midwives (12%); and nurses (58%).

The Distribution of the total health staff by end of the 4th Quarter 2018, per staff category and governorate is shown in [Figure 20].
### Table 1: Availability of human resources of functioning public health centres, per governorate, December 2018

<table>
<thead>
<tr>
<th>Governorate</th>
<th>Practitioner</th>
<th>Specialist Doctor</th>
<th>Resident Doctor</th>
<th>Dentist</th>
<th>Nurses</th>
<th>Laboratory</th>
<th>Midwives</th>
<th>Pharmacists</th>
<th>University</th>
<th>Technicians</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Damascus</td>
<td>36</td>
<td>205</td>
<td>72</td>
<td>97</td>
<td>354</td>
<td>92</td>
<td>78</td>
<td>7</td>
<td>17</td>
<td>222</td>
<td>380</td>
</tr>
<tr>
<td>Rural Damascus</td>
<td>72</td>
<td>131</td>
<td>12</td>
<td>169</td>
<td>863</td>
<td>165</td>
<td>144</td>
<td>30</td>
<td>17</td>
<td>357</td>
<td>555</td>
</tr>
<tr>
<td>Aleppo</td>
<td>65</td>
<td>154</td>
<td>87</td>
<td>105</td>
<td>311</td>
<td>42</td>
<td>208</td>
<td>14</td>
<td>28</td>
<td>54</td>
<td>194</td>
</tr>
<tr>
<td>Idlib</td>
<td>25</td>
<td>26</td>
<td>4</td>
<td>15</td>
<td>323</td>
<td>22</td>
<td>88</td>
<td>15</td>
<td>9</td>
<td>25</td>
<td>63</td>
</tr>
<tr>
<td>Lattakia</td>
<td>118</td>
<td>102</td>
<td>1</td>
<td>160</td>
<td>1,623</td>
<td>53</td>
<td>311</td>
<td>2</td>
<td>22</td>
<td>119</td>
<td>685</td>
</tr>
<tr>
<td>Tartous</td>
<td>137</td>
<td>219</td>
<td>34</td>
<td>466</td>
<td>1,909</td>
<td>200</td>
<td>339</td>
<td>33</td>
<td>40</td>
<td>829</td>
<td>2,331</td>
</tr>
<tr>
<td>Homs</td>
<td>114</td>
<td>199</td>
<td>32</td>
<td>246</td>
<td>1,676</td>
<td>205</td>
<td>352</td>
<td>4</td>
<td>30</td>
<td>781</td>
<td>682</td>
</tr>
<tr>
<td>Hama</td>
<td>154</td>
<td>179</td>
<td>25</td>
<td>259</td>
<td>977</td>
<td>123</td>
<td>220</td>
<td>49</td>
<td>50</td>
<td>540</td>
<td>548</td>
</tr>
<tr>
<td>Al-Hasakeh</td>
<td>36</td>
<td>55</td>
<td>19</td>
<td>64</td>
<td>453</td>
<td>37</td>
<td>117</td>
<td>12</td>
<td>21</td>
<td>101</td>
<td>152</td>
</tr>
<tr>
<td>Deir-ez-Zor</td>
<td>7</td>
<td>16</td>
<td>1</td>
<td>50</td>
<td>417</td>
<td>27</td>
<td>112</td>
<td>21</td>
<td>7</td>
<td>131</td>
<td>249</td>
</tr>
<tr>
<td>Ar-Raqqaa</td>
<td>7</td>
<td>8</td>
<td>0</td>
<td>6</td>
<td>151</td>
<td>7</td>
<td>14</td>
<td>2</td>
<td>7</td>
<td>12</td>
<td>79</td>
</tr>
<tr>
<td>Dar’a</td>
<td>8</td>
<td>29</td>
<td>6</td>
<td>45</td>
<td>504</td>
<td>42</td>
<td>82</td>
<td>7</td>
<td>16</td>
<td>148</td>
<td>206</td>
</tr>
<tr>
<td>As-Sweida</td>
<td>19</td>
<td>48</td>
<td>19</td>
<td>123</td>
<td>1,188</td>
<td>52</td>
<td>70</td>
<td>4</td>
<td>16</td>
<td>211</td>
<td>238</td>
</tr>
<tr>
<td>Quneitra</td>
<td>27</td>
<td>35</td>
<td>4</td>
<td>39</td>
<td>249</td>
<td>46</td>
<td>34</td>
<td>3</td>
<td>9</td>
<td>111</td>
<td>132</td>
</tr>
<tr>
<td>Grand Total</td>
<td>825</td>
<td>1,406</td>
<td>316</td>
<td>1,844</td>
<td>10,998</td>
<td>1,113</td>
<td>2,169</td>
<td>203</td>
<td>274</td>
<td>3,641</td>
<td>6,494</td>
</tr>
</tbody>
</table>
By analyzing the proportion of male to female doctors (a total of: general practitioners, specialist, resident doctors, and dentists), lowest proportions were seen in Ar-Raqqa, Al-Hasakeh, Idleb, and Dara’a governorates [Figure 21].
The following figure shows the number of nurses and midwives per doctor, given that the benchmark is at least 2 nurses and midwives for each doctor (MoH, 2011).

Three governorates (Hama, Damascus, and Aleppo) are below or equal benchmark in [Figure 25].
6.1 Availability of medical staff by category

The availability of medical staff in functional health centres is analyzed by category [i.e., medical doctors¹, nurses, and midwives], as follows:

i. Trend analysis of medical doctors [a total of general practitioners, specialists, resident doctors, and dentists]:

The number of medical doctors in public health centres has slightly decreased by 0.2% by end of December 2018 (4,391) compared to end of September 2018 (4,402).

Figure [24] shows trend analysis of reported medical doctors (a total of General practitioner, Specialists, Resident Doctors, and Dentists) on quarterly basis during 2018.

¹ A total of general practitioners, specialist, resident doctors, and dentists
ii. Trend analysis of Nurses & Midwives:

The number of nurses in public health centres has slightly decreased by 2% by end of December 2018 (10,998) compared to end of March 2018 (11,258).

Figure 25: Trend analysis of reported number of nurses on quarterly basis during 2018

The number of midwives in public health centres has slightly decreased by 0.05% in December 2018 (2,169), compared to March 2018 (2,170).

Figure 26: Trend analysis of reported number of midwives on quarterly basis during 2018
7. Availability of health services

Availability of the core health services is monitored through HeRAMS at a health centre’s level, considering a standard list of health services, as follows:

- General clinical services and essential trauma care
- Child Health: EPI, Under-5 clinic, and Diarrhea management
- Nutrition: screening of MUAC, Management of acute malnutrition (CMAM)
- Communicable Diseases: Diagnosis and treatment of TB cases, and Clinical diagnosis and management of other locally relevant diseases
- Sexual & Reproductive Health: STI and HIV/AIDS, Maternal and newborn health
- Non-communicable Diseases: Asthma and chronic obstructive pulmonary disease (COPD), Cardiovascular services, Hypertension management, Diabetes management, and Oral health and dental care
- Mental health care

Figure 27 shows the percentage of availability of health services across all functional health centres (fully and partially), a total of 1,222.

*Detailed information on availability of services per governorate and health centres is available in the HeRAMS Database.*
The following section provides descriptive analysis for the workload and utilization of services in functional health centres throughout 2018, per governorate.

The workload was analyzed in terms of total consultations in all functional health centres during January to December 2018 [Figure 28]. The total reported workload across all governorates is 12,106,135; disaggregated as 3,142,077 in the 1st Quarter, 2,919,503 in the 2nd Quarter 2,908,960 in the 3rd Quarter and 3,135,595 in the 4th Quarter 2018.

The proportion of workload (consultations) of functional health centres per governorate is presented on Figure 29.

Detailed analysis on utilization of the core health services during the 4th Quarter 2018 is provided on the following sub-sections, including: General clinical services and essential trauma care, Child Health, Nutrition, Communicable Diseases, Sexual & Reproductive Health, Non-communicable Diseases and Mental Health]
Figure 29: Proportions of workload in health centres, January to December 2018, per governorate
7.1 General clinical services

The following sections provide analysis on the utilization of health services in functional health centres at governorate level.

i. Outpatient

The outpatient services with availability of all essential drugs for primary care as per national guidelines were assessed at a health centre level, and the total reported number in the 4th Quarter 2018 is \(1,026,052\); disaggregated at governorate level in Figure 30.

In 2018, the total reported outpatients in health centres are \(4,030,889\). Trend analysis per quarter is presented in [Figure 31].
ii. Basic laboratory services

The number of patients received services in health centres’ laboratories (i.e., Glycaemia, CBC, ...), was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 965,466; disaggregated at governorate level in Figure 32.

In 2018, the total reported number of patients received services in health centres’ laboratories are 3,155,741. Trend analysis per quarter is presented in [Figure 33].
iii. Referral capacity

The referral capacity including: “referral procedures, means of communication, and access to transportation” was measured at a health centre level. The total reported number of referral cases in the 4th Quarter 2018 is 15,319; disaggregated at governorate level in Figure 34.

In 2018, the total number of referred cases is 83,001. Trend analysis is presented in [Figure 35].
### 7.2 Emergency services

The emergency services including: “triage, assessment, first aid and life support (cardiopulmonary resuscitation (CPR) stabilization of patient with severe trauma and non-trauma emergencies before referral (IV line and saline solution for fluid resuscitation)” was assessed at a health centre level. The total reported number of cases in the 4th Quarter 2018 is 177,445; disaggregated at governorate level in Figure 36.

In 2018, the total number of cases reported in health centres is 732,188. Trend analysis per quarter in 2018, is presented in [Figure 37].

![Figure 36: The number of emergency services cases reported in health centres, per governorate, 4th Quarter 2018](image)

In 2018, the total number of cases reported in health centres is 732,188. Trend analysis per quarter in 2018, is presented in [Figure 37].

![Figure 37: Trend analysis of emergency services cases in health centres, per quarter, 2018](image)
7.3 Child health

Availability and utilization of child health services in health centres is assessed for EPI, Under-5 clinic, and Diarrhea management for children.

i. EPI: routine immunization against all national target diseases and adequate cold chain in place:

The number of children received routine immunization service through EPI was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is **511,422** children; disaggregated at governorate level in Figure 38.

In 2018, the total number of vaccinated children in health centres through EPI is **2,118,331**. Trend analysis per quarter is presented in [Figure 39].
ii. Diarrhea Management:

Diarrhea Management for children was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 32,017; disaggregated at governorate level in Figure 40.

Trend analysis of diarrhea management for children in health centres, from January to December 2018, is presented in [Figure 41]. In 2018, the total number of children reported with diarrhea is 156,926.

Figure 40: The number of diarrhea cases (children) in health centres, 4th Quarter 2018

Figure 41: Trend analysis of reported children with diarrhea in health centres, per quarter, 2018
iii. **Under-5 clinic** conducted by IMCI-trained health staff with available paracetamol, first-line antibiotics, Oral rehydration salts (ORS) and zinc dispersible tablets, national IMCI guidelines and flowcharts was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is **105,657**; disaggregated at governorate level in Figure 42.

**Figure 42: The number of Under-5 clinic cases, 4th Quarter 2018**

Trend analysis of Under-5 clinic cases in health centres, from January to December 2018, is presented in [Figure 43]. In 2018, the total number of Under-5 clinic cases is **443,974**.

**Figure 43: Trend analysis of Under-5 clinic cases in health centres, per quarter, 2018**
7.4 Nutrition

i. Growth monitoring and/or screening of acute malnutrition (MUAC or weight-for-height (W/H)) was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 224,654; disaggregated at governorate level in Figure 44.

Figure 44: The number of growth monitoring and/or screening of acute malnutrition cases, 4th Quarter 2018

Trend analysis of growth monitoring and/or screening of acute malnutrition cases in health centres, from January to December 2018, is presented in [Figure 45]. In 2018, the total number of growth monitoring and/or screening of acute malnutrition cases is 862,334.

Figure 45: Trend analysis of growth monitoring and/or screening of acute malnutrition cases in health centres, per quarter, 2018
ii. Community-based management of acute malnutrition (CMAM) with outpatient programme for severe acute malnutrition without medical complications with ready-to-use therapeutic foods available was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 5,595; disaggregated at governorate level in Figure 46.

Figure 46: The number of management of acute malnutrition (CMAM) cases, 4th Quarter 2018

Trend analysis of management of acute malnutrition (CMAM) cases in health centres, from January to December 2018, is presented in [Figure 47]. In 2018, the total number of management of acute malnutrition (CMAM) is 28,643.

Figure 47: Trend analysis of management of acute malnutrition (CMAM) in health centres in health centres, per quarter, 2018
7.5 Communicable diseases

i. Immediate reporting of unexpected or unusual health events through EWARS or routine surveillance was assessed at a health centre level. The total number of reports in the 4th Quarter 2018 is 6,153; disaggregated at governorate level in Figure 48.

Figure 48: The number of immediate reporting of unexpected or unusual health events through EWARS or routine surveillance, 4th Quarter 2018

Trend analysis of immediate reporting of unexpected or unusual health events through EWARS or routine surveillance in health centres, from January to December 2018, is presented in [Figure 49]. In 2018, the total number of reports is 29,242.

Figure 49: Trend analysis of immediate reporting of unexpected or unusual health events through EWARS or routine surveillance in health centres in health centres, per quarter, 2018
Diagnosis and treatment of TB cases, or detection and referral of suspected cases, and follow-up was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 2,704; disaggregated at governorate level in Figure 50.

Trend analysis of diagnosis and treatment of TB cases in health centres, from January to December 2018, is presented in [Figure 51]. In 2018, the total number of diagnosis and treatment of TB cases is 9,503.
Clinical diagnosis and management of other locally relevant diseases, such as cutaneous leishmaniosis, brucellosis, with protocols available for identification, classification, stabilization and referral of severe cases was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 60,960; disaggregated at governorate level in Figure 52.

Trend analysis of diagnosis and management of other locally relevant diseases cases in health centres, from January to December 2018, is presented in [Figure 53]. In 2018, the total number of diagnosis and management of other locally relevant diseases cases is 302,432.
7.6 Sexual and reproductive health

Availability and utilization of sexual & reproductive health care in health centres is assessed at a health centre level for syndromic management of sexually transmitted infections, family planning, antenatal care, normal deliveries, essential newborn care, Post-partum care, and tetanus shots.

i. Syndromic management of sexually transmitted infections:

The number of patients with sexually transmitted infections (STIs) was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 9,516; disaggregated at governorate level in Figure 54.

Of note: the availability of Syndromic management of STIs is reported in six governorates and mainly in comprehensive/poly clinics. In other governorates, if any case reported to a health centre, they refer it to the health centres based on available capacity.

Trend analysis of number of reported cases with sexually transmitted infections (STIs) in health centres, from January to December 2018, is presented in [Figure 55]. In 2018, the total number of reported STIs cases is 30,611.
ii. Family Planning:

The family planning service was assessed at a health centre level. The total reported number of women received the service in the 4th Quarter 2018 is 221,909; disaggregated at governorate level in Figure 56.

Trend analysis of number of women received family planning services in health centres, from January to December 2018, is presented in [Figure 57]. In 2018, the total number of women received family planning services in health centres is 688,624.
iii. Antenatal care

a) Antenatal Care:
The antenatal care (i.e., 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) was assessed at a health centre level. The total reported number of pregnant women received the service in the 4th Quarter 2018 is 69,111; disaggregated at governorate level in Figure 58.

Trend analysis of number of pregnant women received antenatal services in health centres, from January to December 2018, is presented in [Figure 59]. In 2018, the total number of pregnant women received antenatal services in health centres is 280,077.
b) Antenatal visits:
The number of antenatal visits was assessed at a health centre level. The total reported number of visits for pregnant women received the service in the 4th Quarter 2018 is 63,040; disaggregated at governorate level in Figure 60.

Trend analysis of number of antenatal visits in health centres, from January to December 2018, is presented in [Figure 61]. In 2018, the total number of antenatal visits in health centres is 257,361.
c) Tetanus Shots:
The number of pregnant women received Tetanus Shots was assessed at a health centre level. The total reported number of women received the service in the 4th Quarter 2018 is 25,190; disaggregated at governorate level in Figure 62.

Figure 62: The number of pregnant women received tetanus shot in health centres, 4th Quarter 2018

Trend analysis of number of pregnant women received tetanus shots in health centres, from January to December 2018, is presented in [Figure 63]. In 2018, the total number of pregnant women is 110,488.

Figure 63: Trend analysis of number of pregnant women received tetanus shots, per quarter, 2018
d) Normal deliveries:
The number of Normal deliveries was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is **1,471**; disaggregated at governorate level in Figure 64.

**Figure 64: The number of normal deliveries in health centres, 4th Quarter 2018**

Trend analysis of number of normal deliveries in health centres, from January to December 2018, is presented in [Figure 65]. In 2018, the total number of normal deliveries is **5,536**.

**Figure 65: Trend analysis of normal deliveries in health centres, per quarter, 2018**
e) Basic Emergency Obstetric Care (BEOC):
Availability and utilization of BEOC service (including: 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*) was assessed at a health centre level. The total reported number of women received the service in the 4th Quarter 2018 is 283; disaggregated at governorate level in Figure 66.

Figure 66: The number of women received BEOC in health centres, 4th Quarter 2018

Trend analysis of number of women received BEOC service in health centres, from January to December 2018, is presented in [Figure 67]. In 2018, the total number of women is 1,002.

Figure 67: Trend analysis of women received BEOC in health centres, per quarter, 2018
7.7 Noncommunicable diseases

Availability and utilization of NCDS health care services in health centres is assessed at a health centre level for Asthma and chronic obstructive pulmonary disease (COPD), Cardiovascular services, Hypertension management, and Diabetes management.

The total reported number of NCDs’ consultations in the 4th Quarter 2018 is as follows: Asthma and chronic obstructive pulmonary disease (COPD) [24,607], Cardiovascular services [45,024], Hypertension management [116,646], and Diabetes management [241,479]; disaggregated figures are provided at governorate level in [Figure 68].

Figure 68: The number of NCDs consultations (COPD, Cardiovascular, Hypertension, and Diabetes in health centres, 4th Quarter 2018

Trend analysis of number of patients received NCDs health care services in health centres, from January to December 2018, is presented in [Figure 69]. In 2018, the total number of patients received NCDs’ services are 1,736,965, disaggregated as follows: 73,469 for Asthma and chronic obstructive pulmonary disease (COPD), 180,496 for cardiovascular, 467,668 for hypertension, and 1,006,332 for diabetes.

Figure 69: Trend analysis of NCDs’ consultations in health centres, per quarter, 2018
7.8 Oral health and dental care

The total reported number in the 4th Quarter 2018 is 185,742; disaggregated at governorate level in [Figure 70].

Trend analysis of number of oral health and dental care cases in health centres, from January to December 2018, is presented in [Figure 71]. In 2018, the total number of patients is 754,145.

![Figure 70: The number of oral health and dental care cases in health centres, 4th Quarter 2018](image)

![Figure 71: Trend analysis of oral health and dental care cases in health centres, per quarter, 2018](image)
7.9 Mental health care

i. **Psychosocial support services** for distressed people, survivors of assault, abuse, neglect, and domestic violence, including Psychological first aid (PFA), and linking vulnerable individuals/families with resources (such as health services, livelihood assistance etc) was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is **26,883**; disaggregated at governorate level in [Figure 72].

Trend analysis of number of patients received psychosocial support services in health centres, from January to December 2018, is presented in [Figure 73]. In 2018, the total number of patients is **84,947**.
ii. Management of mental disorders by specialized and/or trained and supervised non-specialized health-care providers (mhGAP – Intervention Guide), and/or availability of at least one medicine from each group, antipsychotics, antidepressants, antiepileptic and anxiolytics was assessed at a health centre level. The total reported number in the 4th Quarter 2018 is 12,961; disaggregated at governorate level in [Figure 74].

Figure 74: The number of management of mental disorders cases in health centres, 4th Quarter 2018

Trend analysis of number of patients received management of mental disorders services in health centres, from January to December 2018, is presented in [Figure 75]. In 2018, the total number of patients is 49,842.

Figure 75: Trend analysis of patients received management of mental disorders services in health centres, per quarter, 2018
8. Availability of medical equipment

The availability of different types of essential equipment and supplies was assessed at a health centre level, based on a standard checklist\(^2\).

In its seventh year of crisis, Syria’s public health centres are still suffering from shortages and/or malfunction of medical devices/ equipment to provide health care services. In insecure governorates, medical devices are either destroyed, burned, or malfunctioned, while in safe areas the medical devices are overburdened by increased numbers of people (actual numbers of people in the area, in addition to IDPs and patients / injured people from surrounding areas).

Maintenance of malfunctioned devices remains a concern, due to non-availability of spare parts, accredited agent to provide maintenance support, or difficulty of accessibility in many cases.

Analysis of availability of essential equipment was measured across all functional health centres (1,222 / 1,811), in terms of functional equipment out of the total available equipment in the health centre. The produced analysis provides good indication of the current readiness of the health centres to provide health services, and also to guide focused planning for procurement of equipment and machines, to fill-in identified gaps.

Gaps on essential equipment and machines were observed, even within the functional health centres. Further details are provided in [Figure 76].

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Availability (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fetoscope</td>
<td>94%</td>
</tr>
<tr>
<td>Length Measurement Device</td>
<td>94%</td>
</tr>
<tr>
<td>Height Measurement Device</td>
<td>94%</td>
</tr>
<tr>
<td>Vaginal examination set</td>
<td>93%</td>
</tr>
<tr>
<td>Minor Surgical</td>
<td>93%</td>
</tr>
<tr>
<td>Sterilizer/Autoclave</td>
<td>92%</td>
</tr>
<tr>
<td>Delivery Table</td>
<td>90%</td>
</tr>
<tr>
<td>Weighing Scale for adults</td>
<td>88%</td>
</tr>
<tr>
<td>Safe/Clean delivery kit</td>
<td>84%</td>
</tr>
<tr>
<td>Ambu bag (Paediatric and Adult)</td>
<td>84%</td>
</tr>
<tr>
<td>Weighing Scale for infants</td>
<td>83%</td>
</tr>
<tr>
<td>Combined otoscope</td>
<td>80%</td>
</tr>
<tr>
<td>Blood pressure machine</td>
<td>69%</td>
</tr>
</tbody>
</table>

\(^2\) A more detailed list of essential equipment is available upon request.
9. Availability of priority medicines

Availability of medicines and consumables at health centres’ level has been evaluated based on a standard list of identified priority medicines (driven from the national Essential Medicine List), and medical supplies for duration of one month.

Gaps of medicines and medical supplies are identified even within the functional health centres [Figure 77].

Figure 77: Availability of medicines and medical consumables at functional health centres, 4th Quarter 2018

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Availability (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antiseptics</td>
<td>80%</td>
</tr>
<tr>
<td>ORS</td>
<td>61%</td>
</tr>
<tr>
<td>Antibiotics</td>
<td>59%</td>
</tr>
<tr>
<td>Anti-allergic including Steroids</td>
<td>53%</td>
</tr>
<tr>
<td>Cardiac and/or Vascular Drugs (Anti-hypertensive Drugs, Diuretics, ...)</td>
<td>36%</td>
</tr>
<tr>
<td>Anti-diabetic preparations</td>
<td>34%</td>
</tr>
<tr>
<td>Psychotropic medicines</td>
<td>12%</td>
</tr>
<tr>
<td>Delivery related medicines (i.e., Oxytocin, ...)</td>
<td>3%</td>
</tr>
</tbody>
</table>

More details on availability of medicines and consumables at a health centre level are available in HeRAMS Database.
10. Conclusions and recommendations

- Constant deterioration of functionality status of public health centres was observed throughout 2018; for example the number of non-functioning health centres is still high 625 in 4th Quarter of 2018 as a direct impact of deteriorating security situation.

- Damage of the health centres’ infrastructure had a direct impact on the functionality status and provision of primary healthcare services, however some health centres have resiliently continued to provide services regardless of the level of damage of the building; through optimizing intact parts of the building or in a few cases operating from other neighboring facilities. Rehabilitation of the damaged health centres’ infrastructure is highly needed to improve functionality status and availability of essential health services at primary care level.

- Provision or maintenance of electricity generators for health centres in need (identified in the HeRAMS database) would result in noticeable improvement of availability of services.

- Decline of the available number of medical doctors throughout 2018 was observed and interpreted as fleeing of medical staff out of the country in some cases, and relocation / reassignment of medical staff to DoHS/ health centres in other cases, based on functionality status of the health centres, and security situation in the area. Increased capacity building activities and training courses of the national health staff will help in improving technical capacity of healthcare providers and filling gaps in certain areas.

- Increasing provision of medical equipment and machines, in addition to spare parts (in certain cases) will improve readiness of health centres’ primary level of care, and accordingly fill-in the highlighted gaps and urgent needs reported at different governorates.

- Furthermore, the crisis aggravated the inequalities among regions, leaving many people deprived of the minimum level of health services. HeRAMS can help in directing the interventions of different players to the most vulnerable groups and those with the greatest needs, and in assessing the efficiency of interventions.

- Increasing supply of ICT means for health districts and reporting facilities especially in hard-to-reach and inaccessible areas has proven to improve timeliness & completeness of reporting, quality of data, and flow of information.

- Conducting a qualitative survey on provision of health services from the populations’ point of view, using HeRAMS data as a baseline, will help in concretely measuring the impact of the crisis on public health sector in terms of responsiveness of health centres and quality of provided services.