**Cholera Outbreak by Ministry of Health 06-06-2018**

**REPUBLIC OF YEMEN**

*Ministry of Public Health & Population*

**Health Services Sector & Care**

*D.G. for Diseases Control and Surveillance*

**NATIONAL DIARRHEAL DISEASES CONTROL PROGRAMME**

**Meeting of Health Cluster**

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**Cumulative from 27 April 2017 to 3 June 2018**

- **The Cumulative Total From 27 April 2017 To 3 June 2018**
  - Suspected Cases: 1,104,703
  - Deaths Cases: 2,299
  - Case Fatality Rate: 0.21
  - Attack Rate: 388
  - Confirmed Cases by Lab: 1,152
  - Governorates Affected: 96%
  - Districts Affected: 92%
  - District with AWD: 305
  - Positive Districts by LAB: 132
  - Negative Districts by LAB: 195

- **In week 22**
  - Suspected Cases: 1,795
  - Deaths Cases: 4
  - Case Fatality Rate: 0.20
  - Confirmed Cases by Lab: 10
  - Positive Cases by Rapid Test: 257
  - Negative Cases by Rapid Test: 1,715

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**Table 1: Distribution of suspected cholera cases by Governorate in Yemen, JUNE 3, 2018**

<table>
<thead>
<tr>
<th>Governorate</th>
<th>Cumulative cases</th>
<th>Cumulative Deaths</th>
<th>Attack Rate* (per 10,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al Hudaydah</td>
<td>132,251</td>
<td>266</td>
<td>2.05</td>
</tr>
<tr>
<td>Hajjah</td>
<td>124,237</td>
<td>236</td>
<td>1.97</td>
</tr>
<tr>
<td>Amanat Al Asimah</td>
<td>109,577</td>
<td>270</td>
<td>2.48</td>
</tr>
<tr>
<td>Dhamar</td>
<td>99,293</td>
<td>153</td>
<td>1.55</td>
</tr>
<tr>
<td>Amran</td>
<td>92,037</td>
<td>158</td>
<td>1.71</td>
</tr>
<tr>
<td>Sana'a</td>
<td>80,848</td>
<td>125</td>
<td>1.56</td>
</tr>
<tr>
<td>Ibb</td>
<td>62,947</td>
<td>103</td>
<td>1.64</td>
</tr>
<tr>
<td>Taizz</td>
<td>60,091</td>
<td>104</td>
<td>1.73</td>
</tr>
<tr>
<td>Al Mahwit</td>
<td>57,820</td>
<td>93</td>
<td>1.62</td>
</tr>
<tr>
<td>Al Dhale'e</td>
<td>57,423</td>
<td>101</td>
<td>1.75</td>
</tr>
<tr>
<td>Al Bayda</td>
<td>45,636</td>
<td>89</td>
<td>1.95</td>
</tr>
<tr>
<td>Abyan</td>
<td>43,446</td>
<td>95</td>
<td>2.20</td>
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<tr>
<td>Lahj</td>
<td>39,227</td>
<td>84</td>
<td>2.14</td>
</tr>
<tr>
<td>Aden</td>
<td>39,154</td>
<td>88</td>
<td>2.25</td>
</tr>
<tr>
<td>Raymah</td>
<td>35,577</td>
<td>84</td>
<td>2.38</td>
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<tr>
<td>Al Jawf</td>
<td>28,693</td>
<td>51</td>
<td>1.79</td>
</tr>
<tr>
<td>Sa'dadeh</td>
<td>24,803</td>
<td>57</td>
<td>2.28</td>
</tr>
<tr>
<td>Sa'dadeh</td>
<td>22,519</td>
<td>51</td>
<td>2.28</td>
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<tr>
<td>Marib</td>
<td>20,519</td>
<td>42</td>
<td>2.04</td>
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<tr>
<td>Shabwah</td>
<td>19,259</td>
<td>39</td>
<td>2.05</td>
</tr>
<tr>
<td>Almaharah</td>
<td>10,893</td>
<td>23</td>
<td>2.12</td>
</tr>
</tbody>
</table>

* Higher attack rate indicates that these governorates had the highest risk of cholera transmission as compared to other governorates

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**Figure 1. Epi curve of suspected cholera.**

Epi curve of suspected cholera from 27 April 2017 to 3 June 2018

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**Figure : (1) shows the distribution of cases by Governorate**

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**Figure : (2) shows the distribution of cases by Gender**

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**SUSPECTED CASES BY GENDER**

- Female 50%
- Male 50%
**Figure : (3) shows the distribution of cases by age group**

- The most cases are for children under 5 years (316693), percentage 29% and this age group has the highest attack rate as compare to other age groups.
  - 19% of all deaths associated with suspected cholera were children below five years of age
  - The lowest age groups are (> 60 Y) (33833) and percentage (6%)
  - 31% of all deaths associated with suspected cholera were age groups are (> 60 Y)

**Complete and Detailed Analysis of the Cholera Epidemic**

For Last 3 Weeks:

- **Key Indicators (During Last 3 Weeks 20, 21, 22)**
  - Number of Cases = 6282 Cases
  - Number of Deaths = 11 Deaths
  - Number of Confirmed By Lab = 10 Cases
  - Number of Negative By Lab = 220 Cases
  - Attack Rate = 3 /10,000
  - Case Fatality Rate = 0.18 %
  - Number of Governorates = 15 Governorates
  - Number of Districts = 123 Districts

**Figure : (4) shows the distribution of cases by age group During Last 3 Weeks**

- The most cases are for children under 5 years (1842), percentage 29% and this age group has the highest attack rate as compare to other age groups.
  - 73% of all deaths associated with suspected cholera were children below five years of age
  - The lowest age groups are (> 60 Y) (354) and percentage (6%)
  - 9% of all deaths associated with suspected cholera were age groups are (> 60 Y)

**In week 22**

- 1975 suspected cases and 4 associated deaths were reported
  - The districts reporting the highest number of cases are Al Hali (123), Al Mighlaf (88), At Taffah (82),
  - 16% are severe cases
  - 1,975 RDTs were performed, 257 were positive
In week 22 RDT positive

- 257 positive cases and 1 associated deaths were reported.
- The districts reporting the highest number of cases are Al Hail (24), Az'zal (20), As Sabain (18).
- 83% are severe cases.
- Over 78 stool specimens were collected and analyzed and 10 specimens tested positive for V. Cholera.

Challenges

Lack of operational budget for cholera program to supervise field work

Because of the aggression on Yemen, the health system was destroyed

Lack of operational expenses for health facilities and the District

Lack of operational expenses for health facilities
Thank you
Dr. Abdul Ghani Al Kabeer
Dr. Yahya Alabdulli