

Volume 01, Issue 7, Epi week 17, 19 April - 25 April 2013

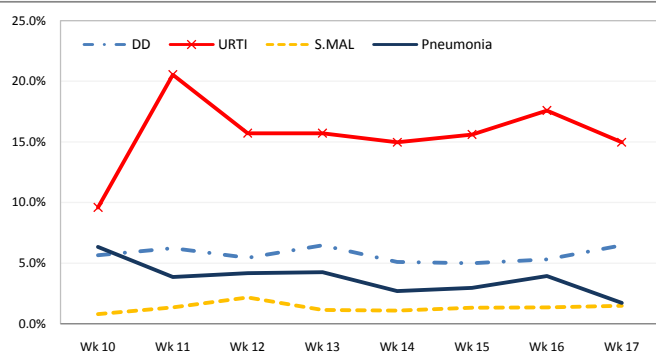
## Highlights

- During week no 17, 2013; 91% (82/90) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 19691 compared to 16288 the previous reporting week. Acute respiratory tract infections (ARI), acute diarrhea (OAD) and suspected malaria (S.Mal) were the leading cause of morbidity this week.
- A total of 47 alerts were generated by eDEWS system in week 17, 2013; Of these, 36 alerts were verified as true for further investigations with appropriate response.
- Altogether 21 alerts of Measles, 6 Pertussis, 4 AVH, 2 AFP and 1 each for Dengue Fever, Meningitis and C.Leishmaniasis were received and responded. In total, 125 people were affected.
- Online disease surveillance and response system was launched in 4 governorates (Aden, Abyan, Lahj and Taiz) in March 2013. Ongoing on site trainings to improve weekly reporting and immediate notification are underway in all 4 pilot governorates.

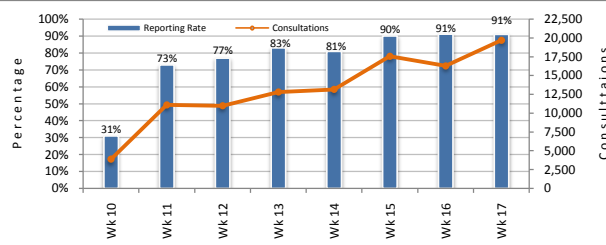
## Leading Priority Diseases - Pilot Governorates (Epi-week 17, 2013)

- URTI (15%), suspected malaria (1.5%), OAD (6.2%) and Pneumonia (1.7%) remain the leading causes of morbidity representing a total of 24.4%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.3% of this morbidity.
- All diarrheal disease comprised 6.5% and Pneumonia 1.7% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.71% and Pneumonia 0.91% of total morbidity in the <5 years age group.

## Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 16, 2013



## eDEWS Reporting Rates vs Consultations in Pilot Governorates, Epi weeks 10 to 17, 2013



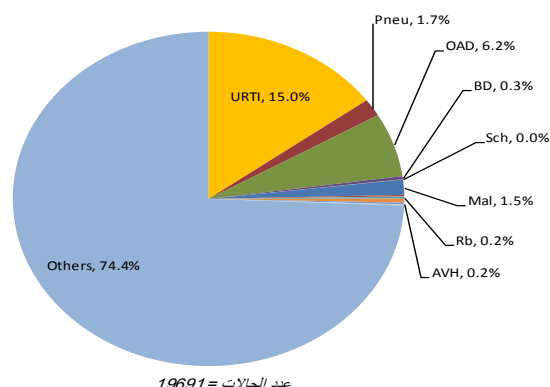
## Distribution of Reporting Rates by Governorates (Epi-week 17, 2013)



## 32 districts from 4 Governorates reported to eDEWS in week 17, 2013

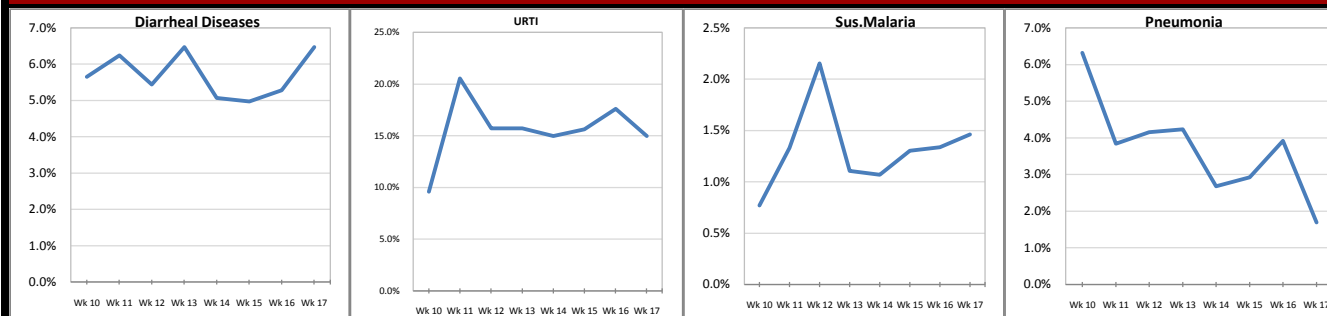


## Proportional Morbidity for Leading Priority Diseases - Epiweek 17, 2013

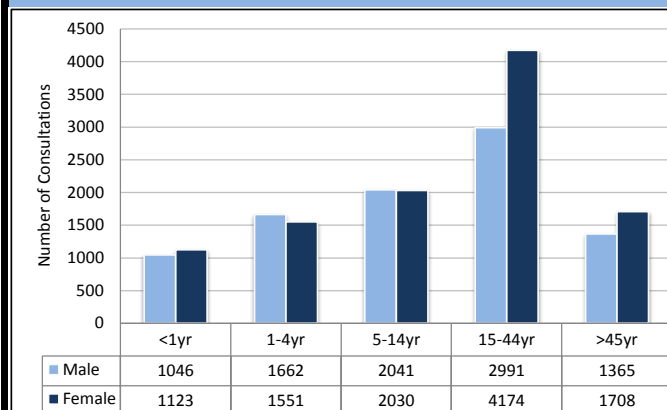


URT=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis; Pert= Pertussis; Diph=Diphtheria; NNT=Neonatal Tetanus

## Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 17, 2013)



## Age and Sex distribution of total consultations of leading diseases (Epi week 17, 2012)



## Cumulative number of major health events reported in Epi-weeks 10 to 17, 2013 (1st March 2013 to 18th April 2013)

| Diseases                         | No of Cases   | Percentage  |
|----------------------------------|---------------|-------------|
| Upper Respiratory Infections     | 16901         | 16.0%       |
| Diarrheal Diseases               | 6006          | 5.7%        |
| Suspected Malaria                | 1435          | 1.4%        |
| Pneumonia                        | 3516          | 3.3%        |
| <b>Total (All consultations)</b> | <b>105605</b> | <b>100%</b> |

## Leading Diseases by Governorate, Epiweek 16

- URTI was highest in Governorate Aden (23.1%) this week.
- Diarrheal Disease was highest in Governorate Aden (7.8%) this week.

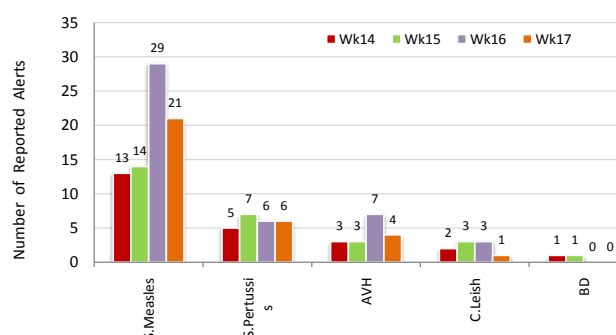
## Distribution of consultations of leading diseases by Governorates, Epiweek 17

| Suspected Disease             | Lahj        | Aden        | Abyan       | Taiz        | Total        |
|-------------------------------|-------------|-------------|-------------|-------------|--------------|
| Upper Respiratory Infections  | 460         | 1697        | 342         | 446         | 2945         |
| Pneumonia                     | 87          | 129         | 51          | 67          | 334          |
| Other Acute Diarrhea          | 196         | 577         | 67          | 375         | 1215         |
| Bloody Diarrhea               | 5           | 8           | 9           | 37          | 59           |
| Acute Watery Diarrhea         | 0           | 0           | 0           | 0           | 0            |
| Schistosomiasis               | 3           | 0           | 1           | 2           | 6            |
| Malaria                       | 54          | 160         | 44          | 30          | 288          |
| Meningitis                    | 1           | 4           | 0           | 25          | 30           |
| Dengue Fever                  | 1           | 0           | 0           | 5           | 6            |
| Viral Hemorrhagic Fever       | 0           | 0           | 0           | 0           | 0            |
| Rabies                        | 7           | 0           | 0           | 26          | 33           |
| Measles                       | 34          | 31          | 5           | 6           | 76           |
| Acute Viral Hepatitis (A & E) | 5           | 15          | 2           | 12          | 34           |
| Neonatal Tetanus              | 0           | 0           | 0           | 0           | 0            |
| Acute Flaccid Paralysis       | 2           | 1           | 0           | 0           | 3            |
| Cutaneous Leishmaniasis       | 0           | 0           | 0           | 1           | 1            |
| Diphtheria                    | 0           | 0           | 0           | 0           | 0            |
| Pertussis                     | 13          | 4           | 0           | 2           | 19           |
| Other Consultations           | 2859        | 4726        | 1155        | 5902        | 14642        |
| <b>Total Consultations</b>    | <b>3727</b> | <b>7352</b> | <b>1676</b> | <b>6936</b> | <b>19691</b> |

## Number of alerts &amp; outbreaks reported and investigated with appropriate response

| Diseases        | 2013       |           | Current week 17, 2013 |           | System Gen. Alerts ( week 17) |           |
|-----------------|------------|-----------|-----------------------|-----------|-------------------------------|-----------|
|                 | Alerts     | Outbreaks | Alerts                | Outbreaks | TRUE                          | FALSE     |
| AWD             | 0          | 0         | 0                     | 0         | 0                             | 0         |
| Pertussis       | 36         | 1         | 6                     | 1         | 6                             | 0         |
| Measles         | 117        | 0         | 21                    | 0         | 21                            | 3         |
| AFP             | 5          | 0         | 2                     | 0         | 2                             | 1         |
| Diphtheria      | 0          | 0         | 0                     | 0         | 0                             | 0         |
| Bloody Diarrhea | 4          | 0         | 0                     | 0         | 0                             | 7         |
| AVH             | 19         | 2         | 4                     | 0         | 4                             | 0         |
| Denque fever    | 6          | 0         | 1                     | 0         | 1                             | 0         |
| Meningitis      | 7          | 0         | 1                     | 0         | 1                             | 0         |
| CL              | 11         | 0         | 1                     | 0         | 1                             | 0         |
| NNT             | 1          | 0         | 0                     | 0         | 0                             | 0         |
| OAD             | 1          | 0         | 0                     | 0         | 0                             | 0         |
| VHF             | 0          | 0         | 0                     | 0         | 0                             | 0         |
| Pneumonia       | 2          | 0         | 0                     | 0         | 0                             | 0         |
| <b>Total</b>    | <b>209</b> | <b>3</b>  | <b>36</b>             | <b>1</b>  | <b>36</b>                     | <b>11</b> |

## Number of Alerts Received and Responded (Epiweeks 12 to 17, 2013)



**Lahj Governorate**

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3,727 patients consultations in week 17, 2013. Total 18 alerts were reported and appropriate measures were taken in week 17, 2013.

**Aden Governorate**

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7,352 patients consultations in week 17, 2013. Total 11 alerts were reported and appropriate measures were taken in week 17, 2013.

**Abyan Governorate**

17 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 1,676 patients consultations in week 17, 2013. Two alerts were reported and appropriate measures were taken in week 17, 2013.

**Taiz Governorate**

15 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 6,936 patients consultations in week 17, 2013. Total 16 alerts were reported and appropriate measures were taken in week 17, 2013.

**Alerts Investigated and Responded in Epi-week 17, 2013**

| Suspected Disease | Governorate | District                                                 | HFs                                                                                          | Actions Taken / Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cases | Deaths |
|-------------------|-------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
| Measles           | Lahj        | Tuban, Radfan, AlMaflahy, AlMusimar, AlQabyatah, Halmain | Al-Feyoush, Radfan, Al-Maflahy, AlWaht, Haran, AlMusimar, Karish, Halmain, AlShat, Saber HFs | Measles focal point was contacted and information was shared; Field investigations done, samples were collected and sent to central lab sana'a for confirmation.                                                                                                                                                                                                                                                                                                                                     | 38    | 0      |
| Pertussis         | Lahj        | Laboas, Radfan, Tuban                                    | Laboas, Radfan, AlSharif, Saber HFs                                                          | One suspected Pertussis case was notified to eDEWS system by private clinic Al-Shareef. On active case search 5 more cases were found, immunization status of eligible children in village was checked where 17% (4/23) were found partially immunized and 83% (19/23) fully immunized, reinforced proper case management, erythromycin given for cases and contacts, isolation done, health education on importance of immunization, & isolation of cases, information shared with DG health office | 10    | 0      |
| AFP               | Lahj        | Tuban, Yahar                                             | Al-Sharif, Yahar HFs                                                                         | AFP focal point was contacted and cross notified for further investigations and response; field investigation was done and sample was collected and sent to central lab Sana'a for lab confirmation.                                                                                                                                                                                                                                                                                                 | 1     | 0      |
| Dengue            | Taiz        | Al-Qahirah                                               | Al-Tawon                                                                                     | District coordinator was contacted, samples were collected and sent to lab, results are awaited. Investigations underway.                                                                                                                                                                                                                                                                                                                                                                            | 5     | 0      |
| Measles           | Taiz        | Salah and AlQahira                                       | AL-Wehdah, Sweden, 14October HFs                                                             | Measles focal point was contacted and information was shared; Field investigations done, samples was collected and sent to central lab sana'a for confirmation.                                                                                                                                                                                                                                                                                                                                      | 6     | 0      |
| Pertussis         | Taiz        | Salah                                                    | AL-Wehdah MCH                                                                                | A suspected case aged 45 days (female child) visited HF from Alraiha district was diagnosed clinically and notified to eDEWS, pt was completely immunized and under treatment, improved and discharged after 3 days, no contact information was available for field investigations, the importance of detailed contact information and immediate alert was discussed again with HCPs.                                                                                                                | 1     | 0      |
| Pertussis         | Taiz        | Al-Qahirah                                               | Sewedian Hosp                                                                                | A suspected case aged 5yr (female child) visited HF from Alhokkab village (Almwaset district) was diagnosed clinically and notified to eDEWS, reinforced case management, no case was found during active case search, immunization status was checked, information was share with health authorities.                                                                                                                                                                                               | 1     | 0      |
| Measles           | Aden        | Craiter, AlMansora, AlTawahi, AlMualla, Craiter          | Al-Qateea, AlWali, AlQalooah, AlTawahi, AlMidan                                              | Measles focal point was contacted and information was shared; Field investigations done, samples from some cases were collected and sent to central lab sana'a for confirmation, investigations underway, information shared with DG health office                                                                                                                                                                                                                                                   | 16    | 0      |

The objective of this weekly epidemiological bulletin is to provide a snap shot on selected health events reported from the eDEWS surveillance system in four governorates (Aden, Abyan, Lahj and Taiz) of Yemen. While every attempt is made to present the weekly trends of epidemic prone diseases, the information presented in the bulletin needs to be interpreted in the context that precise information on the reference populations is not always available. The bulletin also includes information collected by the eDEWS teams. The primary focus of DEWS is early detection of epidemic prone disease, to facilitate a rapid public health response.