

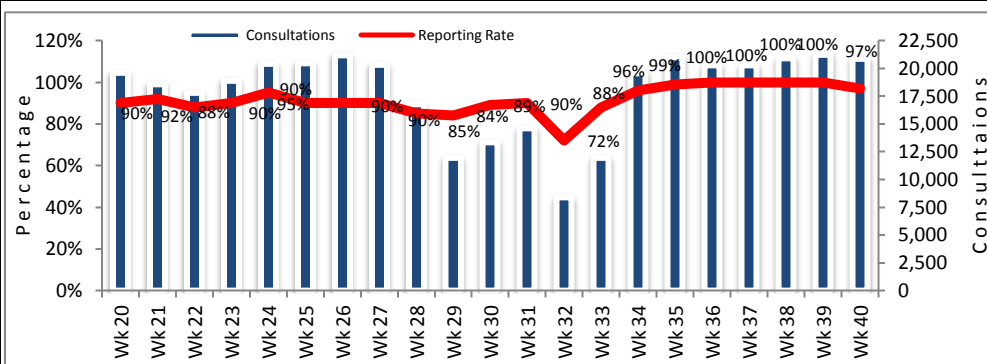


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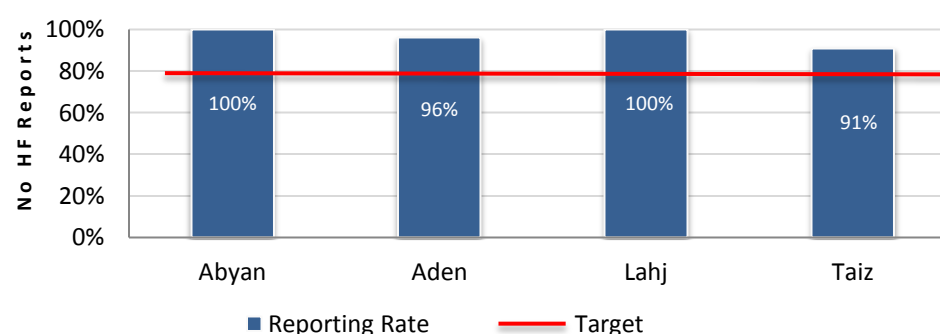
Highlights

- During week no 40, 2013; 97% (91/94) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 20875 compared to 21233 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 39 alerts were generated by eDEWS system in week 40, 2013; Of these, 32 alerts were verified as true for further investigations with appropriate response.
- Altogether 10 alerts Measles, 6 each for AVH and Dengue fever, 3 each for Pertussis and Acute Flaccid Paralysis, 2 Meningitis, and 1 each for C.Leishmaniasis and NNT were received and responded.
- 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.

eDEWS Reporting Rates vs Consultations in Pilot Governorates, Epi weeks 20 to 39, 2013



Distribution of Reporting Rates by Governorates (Epi-week 40, 2013)



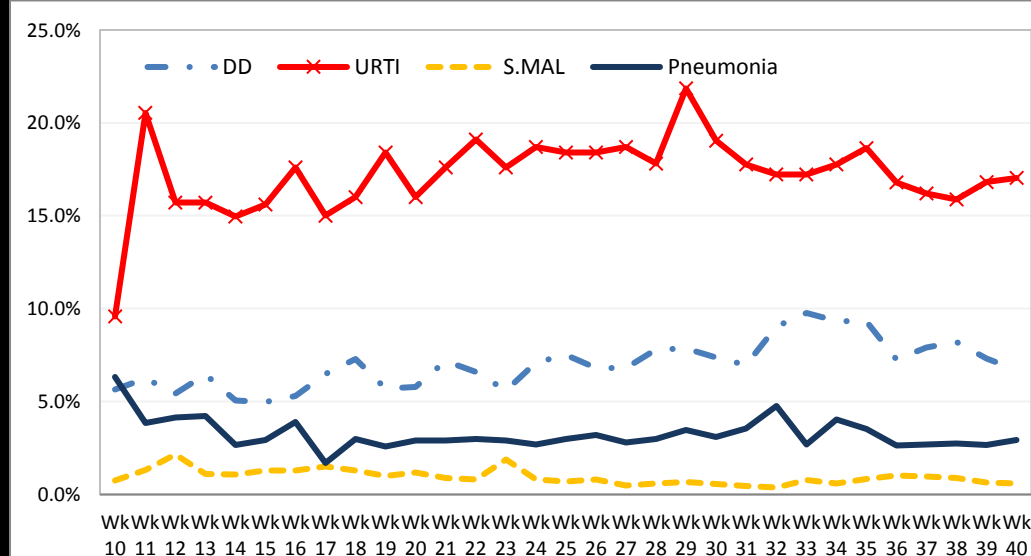
Leading Priority Diseases - Pilot Governorates (Epi-week 40, 2013)

- URTI (17%), suspected malaria (0.6%), OAD (6.5%) and Pneumonia (2.9%) remain the leading causes of morbidity representing a total of 27%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.2% of this morbidity.
- All diarrheal disease comprised 6.7% and Pneumonia 2.9% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.5% and Pneumonia 1.8% of total morbidity in the <5 years age group.

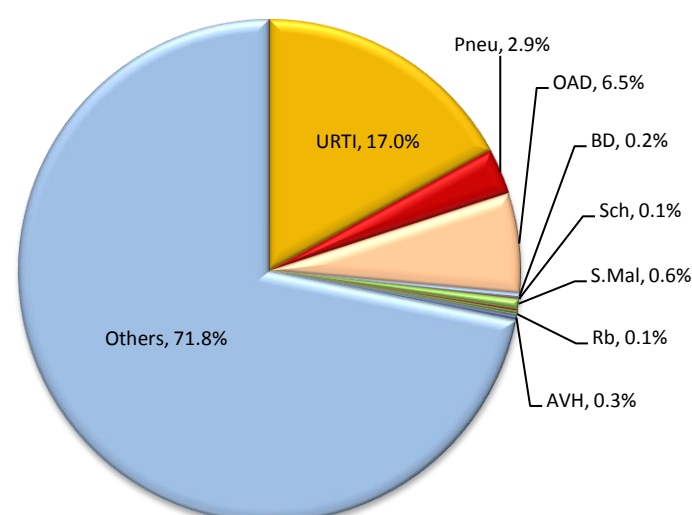
32 districts from 4 Governorates reported to eDEWS in week 40, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 40, 2013



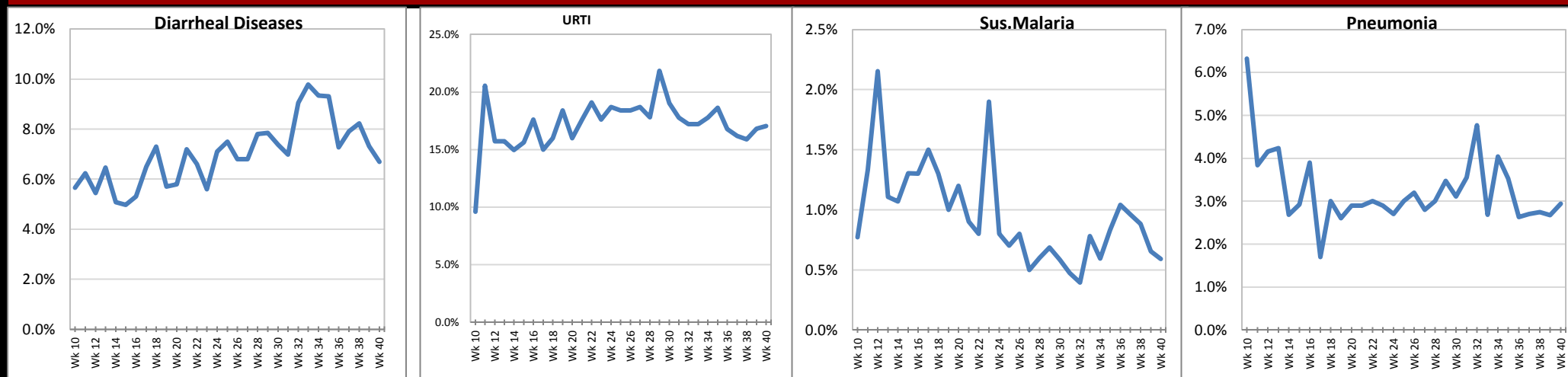
Proportional Morbidity for Leading Priority Diseases - Epiweek 40, 2013



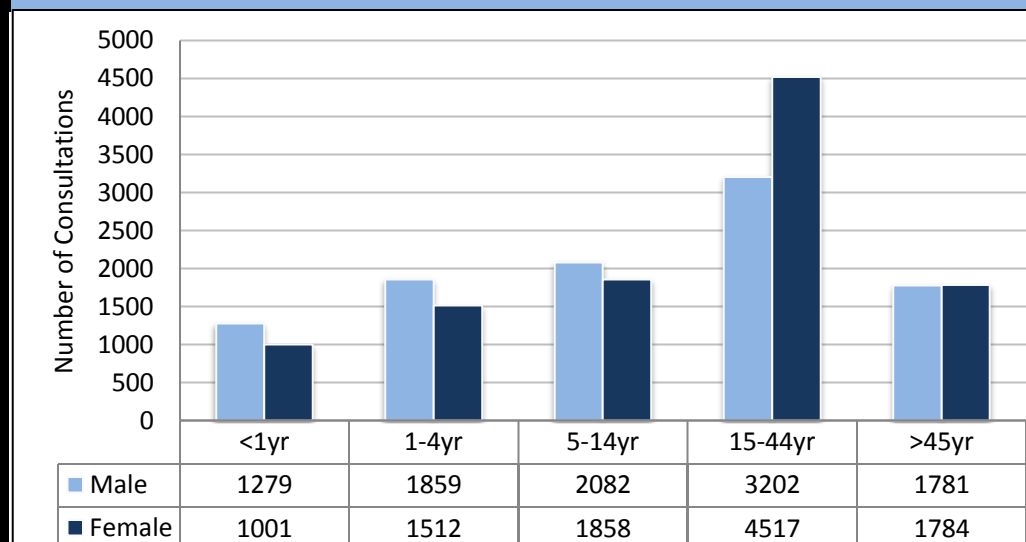
Cases (n=20,875)

URTI=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 40, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 40, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 40, 2013 (1st March 2013 to 3rd Oct. 2013)

| Diseases | No of Cases | Percentage |
|----------------------------------|---------------|-------------|
| Upper Respiratory Infections | 90327 | 17.4% |
| Diarrheal Diseases | 36529 | 7.0% |
| Suspected Malaria | 4926 | 0.9% |
| Pneumonia | 16077 | 3.1% |
| Others | 372247 | 71.6% |
| Total (All consultations) | 520106 | 100% |

Leading Diseases by Governorate, Epiweek 40

- URTI was highest in Governorate Aden (24.14%) this week.
- Diarrheal Disease was highest in Governorate Lahj (8.81%) this week.

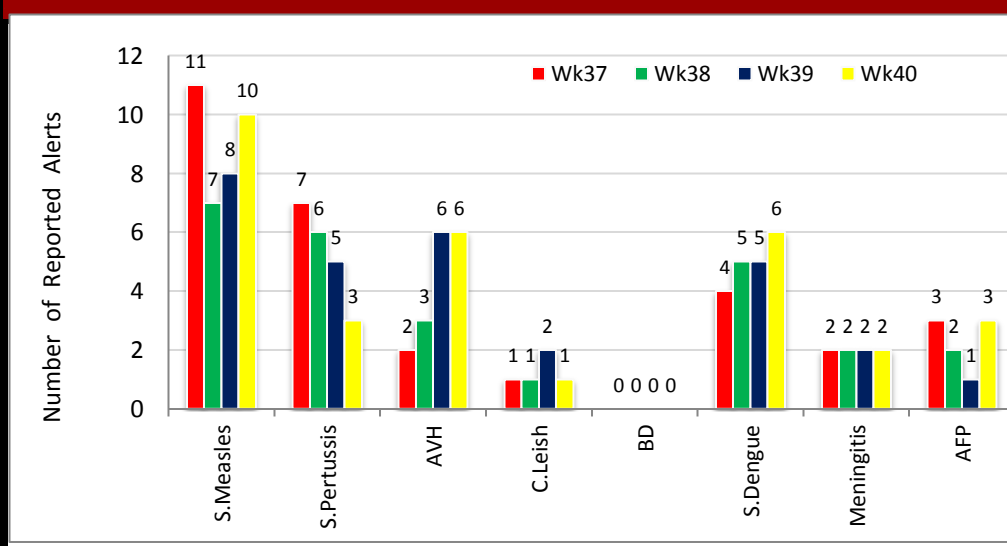
Distribution of consultations of leading diseases by Governorates, Epiweek 40

| Suspected Disease | Lahj | Aden | Abyan | Taiz | Total |
|-------------------------------|-------------|-------------|-------------|-------------|--------------|
| Upper Respiratory Infections | 444 | 1713 | 567 | 832 | 3556 |
| Pneumonia | 80 | 183 | 216 | 135 | 614 |
| Other Acute Diarrhea | 299 | 485 | 193 | 372 | 1349 |
| Bloody Diarrhea | 6 | 4 | 3 | 35 | 48 |
| Acute Watery Diarrhea | 0 | 0 | 0 | 0 | 0 |
| Schistosomiasis | 1 | 0 | 1 | 12 | 14 |
| Malaria | 40 | 27 | 15 | 41 | 123 |
| Meningitis | 0 | 5 | 0 | 21 | 26 |
| Dengue Fever | 0 | 0 | 4 | 38 | 42 |
| Viral Hemorrhagic Fever | 0 | 0 | 0 | 0 | 0 |
| Rabies | 0 | 0 | 0 | 18 | 18 |
| Measles | 4 | 7 | 1 | 1 | 13 |
| Acute Viral Hepatitis (A & E) | 7 | 11 | 9 | 28 | 55 |
| Neonatal Tetanus | 0 | 0 | 0 | 1 | 1 |
| Acute Flaccid Paralysis | 1 | 1 | 0 | 1 | 3 |
| Cutaneous Leishmaniasis | 1 | 0 | 0 | 0 | 1 |
| Diphtheria | 0 | 0 | 0 | 0 | 0 |
| Pertussis | 2 | 5 | 2 | 0 | 9 |
| OtherUn | 14 | 5 | 0 | 1 | 20 |
| Other Consultations | 2564 | 4650 | 1867 | 5902 | 14983 |
| Total Consultations | 3463 | 7096 | 2878 | 7438 | 20875 |

Number of alerts & outbreaks reported and investigated with appropriate response

| Diseases | 2013 | | Current week 40, 2013 | | System Gen. Alerts (week 40) | |
|-----------------|------------|-----------|-----------------------|-----------|-------------------------------|----------|
| | Alerts | Outbreaks | Alerts | Outbreaks | TRUE | FALSE |
| AWD | 0 | 0 | 0 | 0 | 0 | 0 |
| Pertussis | 168 | 4 | 3 | 0 | 3 | 0 |
| Measles | 428 | 0 | 10 | 0 | 10 | 0 |
| AFP | 36 | 0 | 3 | 0 | 3 | 0 |
| Schistosomiasis | 7 | 0 | 0 | 0 | 0 | 0 |
| Bloody Diarrhie | 10 | 0 | 0 | 0 | 0 | 5 |
| AVH | 89 | 2 | 6 | 0 | 6 | 1 |
| Denque fever | 49 | 0 | 6 | 0 | 6 | 0 |
| Meningitis | 42 | 0 | 2 | 0 | 2 | 0 |
| CL | 40 | 1 | 1 | 0 | 1 | 0 |
| NNT | 13 | 0 | 1 | 0 | 1 | 0 |
| OAD | 4 | 0 | 0 | 0 | 0 | 0 |
| VHF | 1 | 0 | 0 | 0 | 0 | 0 |
| Pneumonia | 11 | 0 | 0 | 0 | 0 | 1 |
| Total | 898 | 7 | 32 | 0 | 32 | 7 |

Number of Alerts Received and Responded (Epiweeks 37 and 40, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3463 patients consultations in week 40, 2013. Total 6 alerts were reported and appropriate measures were taken in week 40, 2013. Altogether 2 alerts Measles, and 1 each for Pertussis and C. Leishmaniasis, AVH and Acute Flaccid Paralysis were reported and responded.

Aden Governorate

24 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7096 patients consultations in week 40, 2013. Total 10 alerts were reported and appropriate measures were taken in week 40, 2013. Altogether 6 alerts Measles, and 1 each for AVH, Meningitis, Acute Flaccid Paralysis and Pertussis were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 2878 patients consultations in week 40, 2013. Total 4 alerts were reported and appropriate measures were taken in week 40, 2013. Altogether 1 alerts each for Measles, AVH, Dengue Fever and C. Leishmaniasis were reported and responded.

Taiz Governorate

20 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7438 patients consultations in week 40, 2013. Total 12 alerts were reported and appropriate measures were taken in week 40, 2013. Altogether 5 alerts Dengue Fever, 3 AVH, and 1 each for Measles, Meningitis, Acute Flaccid Paralysis and NNT were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 40, 2013

| Suspected Disease | Governorate | District | HFs | Actions Taken / Notes | Cases | Deaths |
|-------------------|-------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
| CL | Lahj | Halmin | Halmin Hospital | eDEWS team contacted focal point. The case confirmed to be CL and treated appropriately. . Wasnot samples collected . | 1 | 0 |
| AVH | Lahj | Yahar | Yahar Hospital | eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately | 3 | 0 |
| Pertussis | Lahj | Labaos | Labaos Hospital | eDEWS team contacted focal point, cases were diagnosed clinically using case definition by doctor in clinic, case was treated as per standard protocol for Pertussis. | 2 | 0 |
| Measles | Lahj | alqabetah and Tuban | kersh and Al-Sharif HFs. | Measles focal point was contacted and information were shared; Field investigation and Blood sample were collected from the case . | 4 | 0 |
| AFP | Lahj | almadarebh | alshat Hospital | eDEWS team contacted focal point, the case was a suspected AFP, surveillance coordinator was informed, stool sample was collected and sent to central surveillance center in Sana'a | 1 | 0 |
| AVH | Aden | Al Mansura | Al-Wali Hosp. | eDEWS team contact focal point, information shared, cases were diagnosed clinically by pediatric specialist, no blood samples were collected. The address of cases were not registered. A visit will be conducted to the hospital to have an on job training about the importance of data registration. | 4 | 0 |
| Measles | Aden | Al Buraiqeh, Al-Mualla, Creiter, Khur Maksar and Al-Shaikh Othaman | Al-Shaab, Al-Mualla, Al-Maidan, Al-Qateea, Khur Maksar and Al-Wahdah HFs . | eDEWS team contact focal point, information shared, Blood sample was collected from 2 cases and will be sent to sana'a central Lab. For Lab. Confirmation. The measles blood samples of last week were sent. | 7 | 0 |
| Measles | Abyan | Khanfir | MCH Ja'ar | eDEWS team contact focal point, information shared, Blood sample was collected from the case and sent to sana'a central Lab. For Lab. Confirmation. | 1 | 0 |
| Pertusis | Abyan | Khanfir | Shokra HC | eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients. | 2 | 0 |
| AVH | Abyan | Khanfir | Shokra HC | eDEWS team contact focal point, information shared, surveillance coordinator of Abyan was informed, the cases were from two different districts, no blood samples were collected from cases. | 8 | 0 |
| DF | Abyan | Lawdar | Lawdar Hospital | eDEWS team contact focal point, information shared, the four cases were from four different villages, surveillance coordinator of Abyan was informed, blood samples were collected from two cases and will be sent to sana'a central Lab. For Lab. Confirmation. | 4 | 0 |
| Pertussis | Aden | Ash Shaikh Outhman | Al-Wahdah Hosp. | eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients. | 5 | 0 |
| Meningitis | Aden | Ash Shaikh Outhman | Al-Wahdah Hosp. | eDEWS team contact meningitis focal point, cases diagnosed as meningitis and treatment was given. Cases from different districts. | 5 | 0 |
| AFP | Aden | Ash Shaikh Outhman | Al-Wahdah Hosp. | eDEWS team contact AFP focal point, information shared, the two cases were suspected AFP, samples were collected from the cases and their close contact, and sent to central surveillance center in Sana'a for Lab confirmation. | 2 | 0 |
| DF | Taiz | Al Qahirah and Al-Mudhafar | Labs National Center, Al-Mudhafar, Yemen International, Al-Kendy and Al-Buraihi HFs. | Focal point contacted , information shared , 17 samples results were positive for DF (Elisa test) , pateints contact information were not available , the importance of detailed patients contact information was discussed again. | 26 | 0 |
| AVH | Taiz | Al Qahirah | Labs National Center, Al-Tawon and Sweden HFs. | Focal point contacted , information shared , , 13 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was discussed again. | 19 | 0 |
| Meningitis | Taiz | Al Qahirah | Sweden Hosp. | Focal point contacted, information shared , samples were sent to the HF lab. With negative results (No growth) . | 20 | 0 |
| NNT | Taiz | Al Qahirah | Sweden Hosp. | The suspected NNT case aged 17 days M child brought to hospital 10 days ago (from Sharab Alronah) ,C/O fever , convulsion and inability to breast feed (sucking) , he was admitted into hospital , anti-tetanus toxoid doses , antibiotic were given , with little improvement. | 1 | 0 |
| AFP | Taiz | Al Qahirah | Sweden Hosp. | A 4 years Male childe from Altaziah (immunized) was admitted to ICU in deep Coma on 17/9/2013 (Meningitis) , on 28/09/2013 the patien developed left side hemiplegia , AFP coordinator was informed , he collected stool samples from patient and close contact and sent them to central surveillance lab. in Sanaa . | 1 | 0 |
| Measles | Taiz | Al Qahirah | Sweden Hosp. | Focal point contacted, information shared, sample was collected , but it wasn't sent yet to the centrla lab. In Sanaa. | 1 | 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.