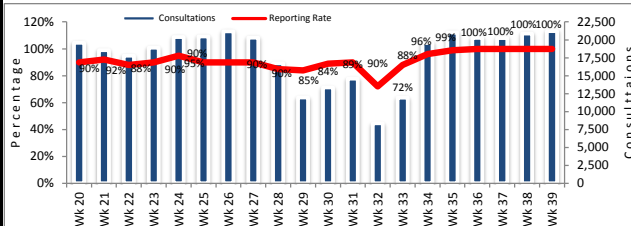


Volume 01, Issue 29, Epi week 39, 20 Sept. - 26 Sept. 2013

Highlights

- During week no 39, 2013; **100% (94/94)** health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 21233 compared to 20884 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 40 alerts were generated by eDEWS system in week 39, 2013; Of these, 31 alerts were verified as true for further investigations with appropriate response.
- Altogether 8 alerts Measles, 6 AVH, and 5 each for Petrussis and Dengue fever, and 2 each for Meningitis and C.Leishmaniasis, and 1 each for Acute Flaccid Paralysis, OAD and Malaria 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 39, 2013)



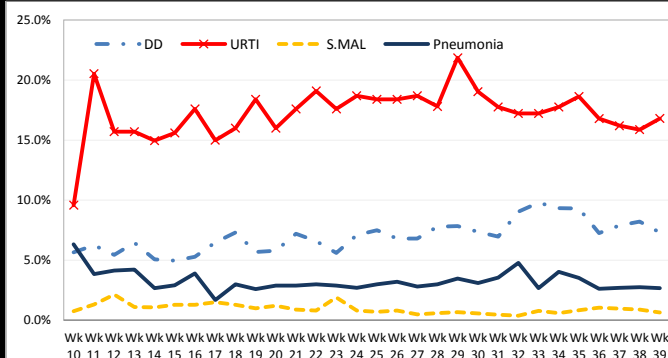
Leading Priority Diseases - Pilot Governorates (Epi-week 39, 2013)

- URTI (16.8%), suspected malaria (0.7%), OAD (7.1%) and Pneumonia (2.7%) remain the leading causes of morbidity representing a total of 27.3%.
- 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 7.3% and Pneumonia 2.7% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.5% and Pneumonia 1.6% of total morbidity in the <5 years age group.

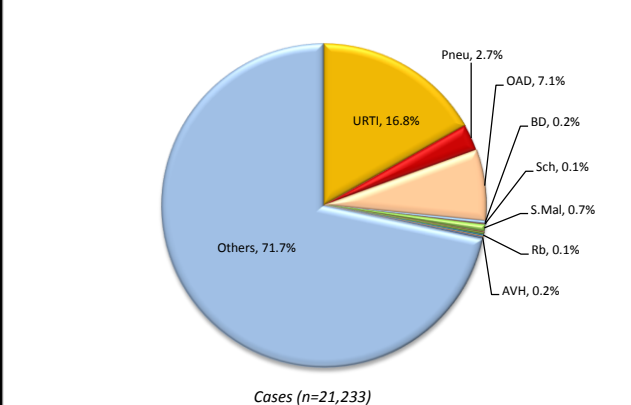
32 districts from 4 Governorates reported to eDEWS in week 39, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 39, 2013

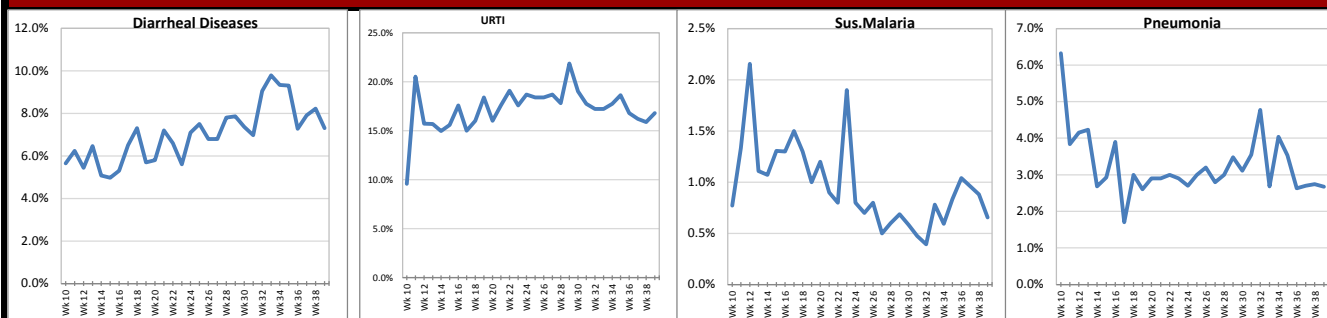


Proportional Morbidity for Leading Priority Diseases - Epiweek 39, 2013

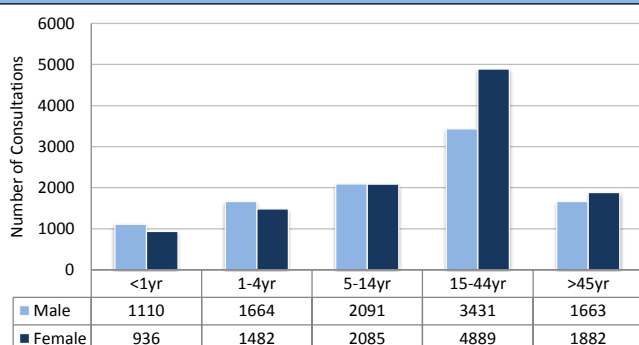


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb= Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 39, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 39, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 39, 2013 (1st March 2013 to 26th Sept. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	86771	17.4%
Diarrheal Diseases	35132	7.0%
Suspected Malaria	4803	1.0%
Pneumonia	15463	3.1%
Others	357062	71.5%
Total (All consultations)	499231	100%

Leading Diseases by Governorate, Epiweek 39

- URTI was highest in Governorate Aden (23.9%) this week.
- Diarrheal Disease was highest in Governorate Lahj (10.04%) this week.

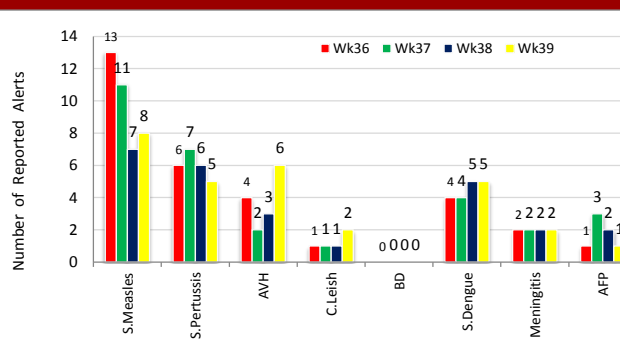
Distribution of consultations of leading diseases by Governorates, Epiweek 39

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	443	1832	479	815	3569
Pneumonia	89	115	246	117	567
Other Acute Diarrhea	336	631	133	408	1508
Bloody Diarrhea	10	2	3	29	44
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	6	0	0	11	17
Malaria	27	46	12	54	139
Meningitis	0	3	1	17	21
Dengue Fever	0	0	2	47	49
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	1	0	0	24	25
Measles	0	9	9	2	20
Acute Viral Hepatitis (A & E)	5	7	1	26	39
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	0	1	0	0	1
Cutaneous Leishmaniasis	3	0	0	0	3
Diphtheria	0	0	0	0	0
Pertussis	3	2	0	3	8
OtherUn	0	2	0	4	6
Other Consultations	2524	5016	1792	5885	15217
Total Consultations	3447	7666	2678	7442	21233

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 39, 2013		System Gen. Alerts (week 39)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	165	4	5	1	5	1
Measles	418	0	8	0	8	1
AFP	33	0	1	0	1	0
Schistosomiasis	7	0	0	0	0	0
Bloody Diarrhie	10	0	0	0	0	6
AVH	83	2	6	0	6	1
Denque fever	43	0	5	0	5	0
Meningitis	40	0	2	0	2	0
CL	39	1	2	1	2	0
NNT	12	0	0	0	0	0
OAD	4	0	1	0	1	0
VHF	1	0	0	0	0	0
Pneumonia	11	0	0	0	0	0
Total	866	7	30	2	30	9

Number of Alerts Received and Responded (Epiweeks 36 and 39, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3447 patients consultations in week 39, 2013. Total 5 alerts were reported and appropriate measures were taken in week 39, 2013. Altogether 2 alerts each for Pertussis and C. Leishmaniasis, and 1 for AVH were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7666 patients consultations in week 39, 2013. Total 10 alerts were reported and appropriate measures were taken in week 39, 2013. Altogether 5 alerts Pertussis, and 1 each for Pertussis, Meningitis, Acute Flaccid Paralysis, OAD and Malaria were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 2678 patients consultations in week 39, 2013. Total 1 alerts were reported and appropriate measures were taken in week 39, 2013.

Taiz Governorate

22 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7442 patients consultations in week 39, 2013. Total 15 alerts were reported and appropriate measures were taken in week 39, 2013. Altogether 5 alerts each for Dengue Fever and AVH, and 1 each for Pertussis and Measles, and 1 Meningitis were reported and responded.

Outbreak Investigated and Responded in Epi-week 39, 2013

Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
Pertussis	Taiz	Al Qahirah	Sweden Hospital	The suspected Pertussis case aged 9 months female child from Hashefen village (Alshmaiteen District), not vaccinated, blood sample was collected, treatment was started (Antibiotic, Paramol and Soolan), field visit was conducted to the village, active case search, another 10 cases were found (Outbreak), vaccination coverage very poor (almost 0), Erythromycin was prescribed for the patients, Surveillance department and immunization coordinator was notified. This outbreak in week 38.	11	0
CL	Lahj	Al-Melah and Tur Albaha	Al-Melah and Tur Albaha Hospital	A visit was made to Tur-albaha hospital in week 35 and then a field investigation was conducted to Al-mugataara district where cases came from. Eleven more cases were found and samples were collected from patients for lab confirmation (there was an outbreak according to eDEWS case definition). The situation was discussed with surveillance coordinator and DG of health of district. Patients will be treated. Health education about the cause of cutaneous leishmaniasis, mode of transmission and preventive measures was discussed with people in village.	11	0

Alerts Investigated and Responded in Epi-week 39, 2013

Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	Al-Had and Labaos	Al-Had and Labaos Hospital	eDEWS team contacted focal point, case was diagnosed clinically using case definition by doctor in clinic, case was treated as per standard protocol for Pertussis.	3	0
AVH	Lahj	Labaos	Labaos Hospital	eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately	3	0
Measles	Taiz	Al Qahirah	26 September and Sweden Hospital	Focal point contacted, information shared, sample was collected, and sent to centr. In Sana'a.	2	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	Focal point contacted, information shared, samples were sent to the HF lab. With negative results (No growth).	16	0
AVH	Taiz	Al Qahirah, Sallah and Al-Mudhafer	Sweden, Yemen International, Al-Reefae, Al-Hekmah and Al-Safwah HF's.	Focal point contacted, information shared, samples were sent to the HF lab., 20 samples results were positive for Hepatitis A, patients contact information were not available, the importance of detailed patients contact information was discussed again.	23	0
DF	Taiz	Al Mudhaffar and Al-Qahirah	Almodafar, Al-Tawon, Yemen International, Al-Hekmah and Al-	Focal point contacted, information shared, all samples results were positive for DF (Elisa test), patients contact information were not available, the importance of detailed patients contact information was discussed again.	41	0
Pertussis	Taiz	Ash Shamayatayn	Khalifa Hospital	The suspected Pertussis cases (2 yrs M child, 4 yrs F child, immunized) brought to hospital C/O fever, cough followed by vomiting, no contact information available, the importance of detailed contact information was discussed again.	2	0
Measles	Abyan	Khanfir	Alkawd HC	eDEWS team contact focal point, information shared, Blood samples were collected from two cases only and will be sent to sana'a central Lab. For Lab. Confirmation. A visit will be conducted to the health center for further information.	9	0
Measles	Aden	Al Mualla, Al Mansura, Khur Maksar and Al Towahi	Al-muala, Saber, Khor Maksar, Al Qalloa'a and Al Mansura HF's.	eDEWS team contact focal point, information shared, Blood samples were collected from three cases and will be sent to sana'a central Lab. For Lab. Confirmation.	8	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. The two cases are from different governorates.	2	0
OAD	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A 6 month male from Al-basateen admitted to hospital on 21/9/2013 with a diagnosis of Sever Acute Malnutrition (SAM with diarrhea and sever dehydration). The developed acute renal failur (ARF) and died on 21/9/2013.	93	1
Malaria	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A 6 years male from Aldalaa/ Lahj admitted to hospital on 21/9/2013 complaining from fever, chills, vomiting for 3 days and convulsion before one day of admission. Blood film for malaria parasite was done and the result was positive. Quinine was taken. Patient developed deep coma and died on 22/9/2013 with a final diagnosis of cerebral malaria.	6	1
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact meningitis focal point, cases diagnosed as meningitis and treatment was given. The three cases are from three different districts n Aden.	3	0
AFP	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A 13 months old male, from seera/ aden governorat, admitted to hospital on 22/9/2013 complaining of fever for 20 days, vomiting and diarrhea for 15 days. On examination patient was conscious, febrile, dehydrated and lethargic. On the second day of admission the patient developed hypotonia in the lower limbs, AFP coordinator was informed and samples were collected from close contact and sent to central surveillance center in Sana'a for Lab confirmation. On 26/9/2013 patient condition deteriorate, he developed jaundice, disturbance in conscious and convulsion. Blood film for malaria parasite was done (it was positive) and patient recived Quinine treatment. Patient died on 26/9/2013.	1	1

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.