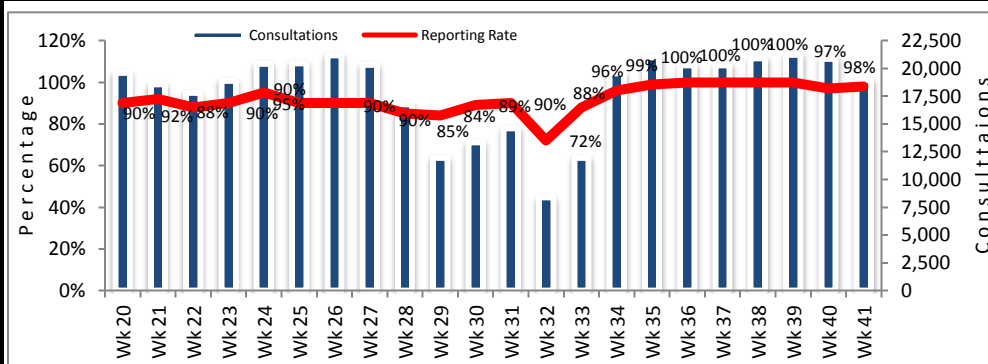


Volume 01, Issue 31, Epi week 41, 4 Oct. - 10 Oct. 2013

Highlights

- During week no 41, 2013; 98% (92/94) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 18907 compared to 20875 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 51 alerts were generated by eDEWS system in week 41, 2013; Of these, 31 alerts were verified as true for further investigations with appropriate response.
- Altogether 7 alerts Measles, 6 Petrussis, 4 Dengue fever, 3 each for AVH and C.Leishmaniasis, 2 each for Acute Flaccid Paralysis, Meningitis and NNT, and 1 each for VHFand Pneumonia 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 41, 2013



Distribution of Reporting Rates by Governorates (Epi-week 41, 2013)



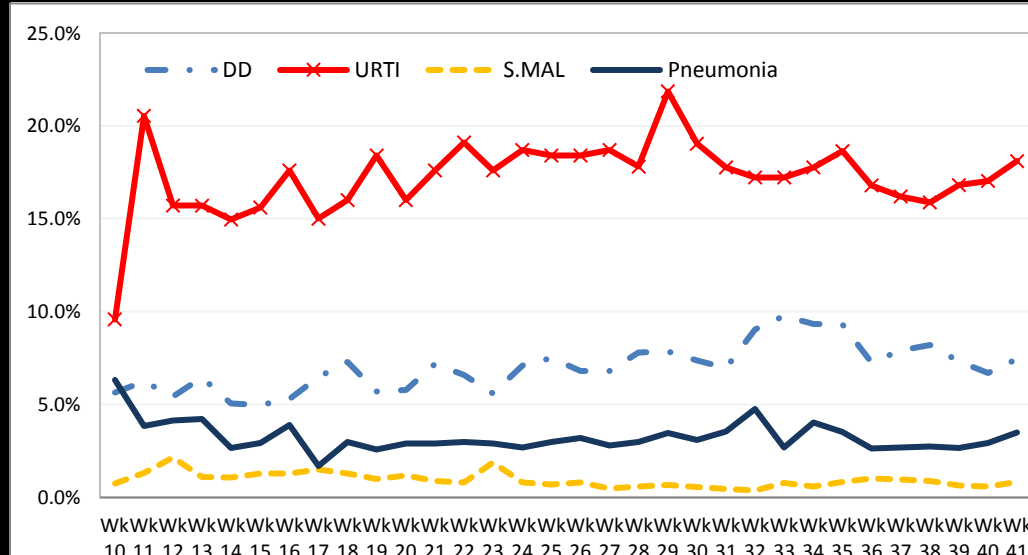
Leading Priority Diseases - Pilot Governorates (Epi-week 41, 2013)

- URTI (18.1%), suspected malaria (0.9%), OAD (7%) and Pneumonia (3.5%) remain the leading causes of morbidity representing a total of 29.5%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.5% of this morbidity.
- All diarrheal disease comprised 7.5% and Pneumonia 3.5% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.7% and Pneumonia 2.07% of total morbidity in the <5 years age group.

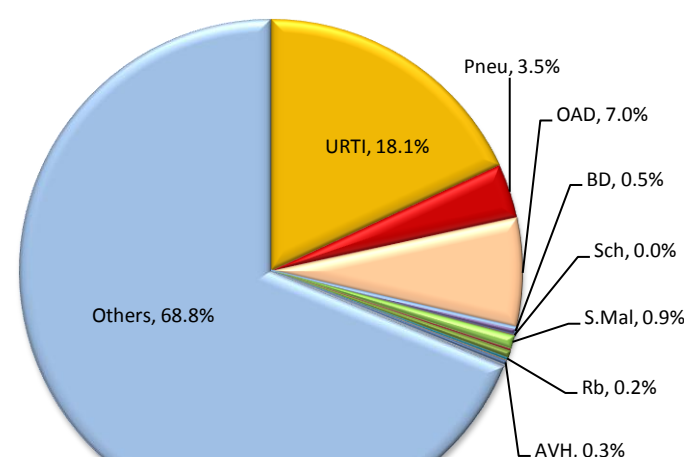
32 districts from 4 Governorates reported to eDEWS in week 41, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 41, 2013



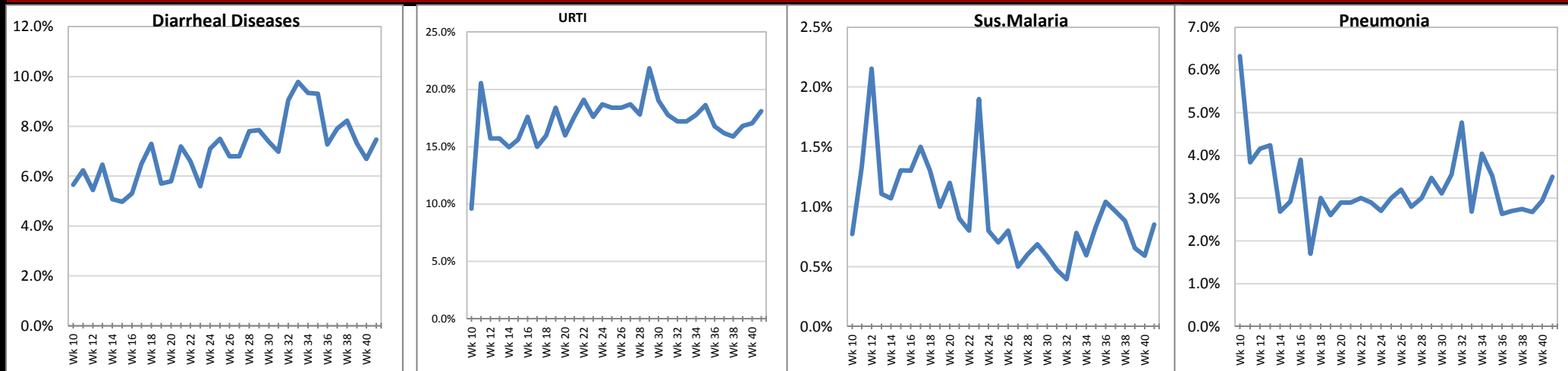
Proportional Morbidity for Leading Priority Diseases - Epiweek 41, 2013



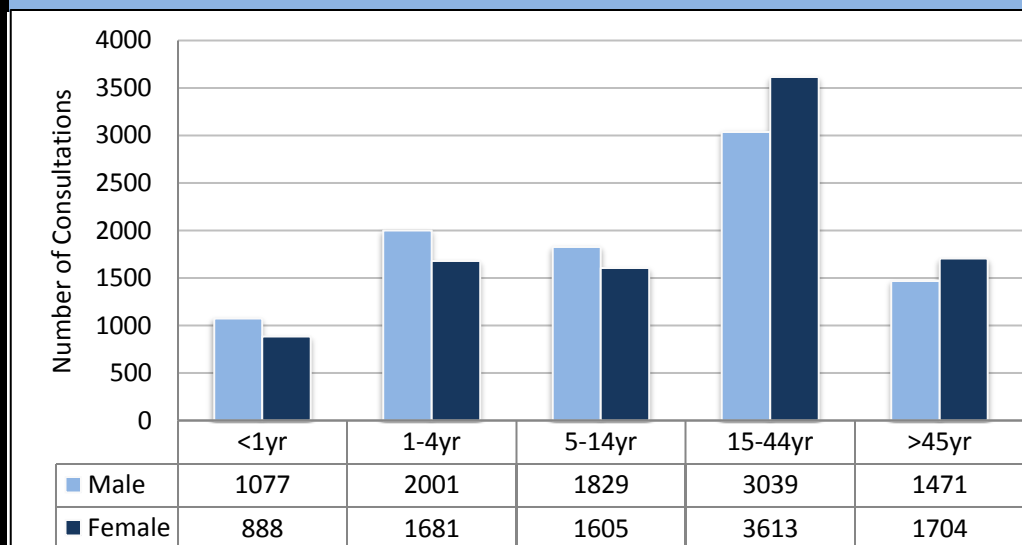
Cases (n=18,907)

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 41, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 41, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 41, 2013 (1st March 2013 to 10th Oct. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	93749	17.4%
Diarrheal Diseases	37940	7.0%
Suspected Malaria	5087	0.9%
Pneumonia	16738	3.1%
Others	385500	71.5%
Total (All consultations)	539014	100%

Leading Diseases by Governorate, Epiweek 41

- URTI was highest in Governorate Aden (25.41%) this week.
- Diarrheal Disease was highest in Governorate Lahj (9.36%) this week.

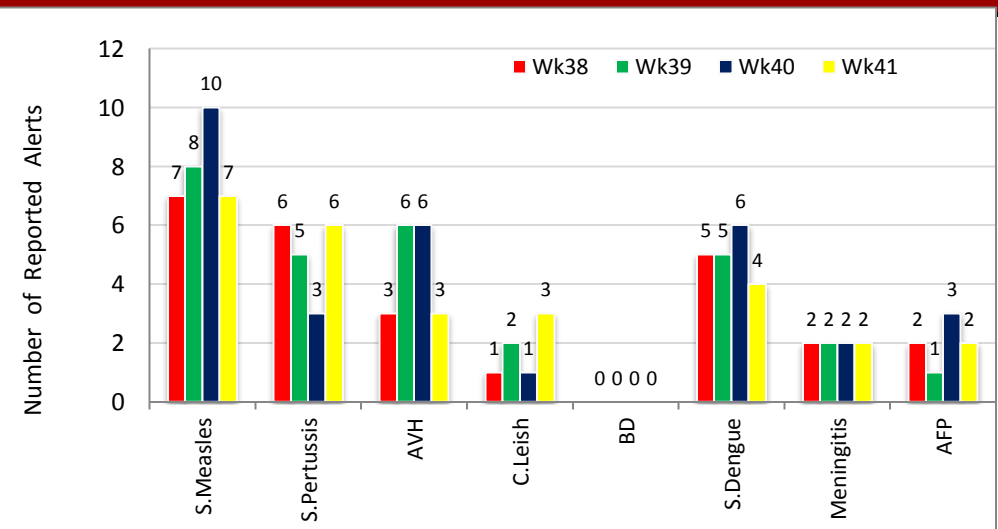
Distribution of consultations of leading diseases by Governorates, Epiweek 41

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	429	1622	506	865	3422
Pneumonia	74	194	249	144	661
Other Acute Diarrhea	265	543	155	358	1321
Bloody Diarrhea	21	1	4	64	90
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	0	0	1	7	8
Malaria	27	14	16	104	161
Meningitis	3	4	0	19	26
Dengue Fever	1	0	6	80	87
Viral Hemorrhagic Fever	0	0	1	0	1
Rabies	1	0	0	30	31
Measles	1	6	1	1	9
Acute Viral Hepatitis (A & E)	8	7	3	36	54
Neonatal Tetanus	1	0	0	2	3
Acute Flaccid Paralysis	0	0	1	2	3
Cutaneous Leishmaniasis	3	0	0	0	3
Diphtheria	0	0	0	0	0
Pertussis	3	5	0	8	16
OtherUn	1	2	0	1	4
Other Consultations	2218	3985	1520	5284	13007
Total Consultations	3056	6383	2463	7005	18907

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 41, 2013		System Gen. Alerts (week 41)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	174	4	6	0	6	0
Measles	435	0	7	0	7	1
AFP	38	0	2	0	2	0
Schistosomiasis	7	0	0	0	0	0
Bloody Diarrhie	10	0	0	0	0	8
AVH	92	2	3	0	3	1
Denque fever	53	0	4	0	4	8
Meningitis	44	0	2	0	2	0
CL	43	1	3	0	3	0
NNT	15	0	2	0	2	0
OAD	4	0	0	0	0	1
VHF	2	0	1	0	1	0
Pneumonia	12	0	1	0	1	1
Total	929	7	31	0	31	20

Number of Alerts Received and Responded (Epiweeks 38 and 41, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3056 patients consultations in week 41, 2013. Total 8 alerts were reported and appropriate measures were taken in week 41, 2013. Altogether 3 alerts C. Leishmaniasis, Pertussis, and 1 each for AVH, Measles and NNT were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6383 patients consultations in week 41, 2013. Total 7 alerts were reported and appropriate measures were taken in week 41, 2013. Altogether 4 alerts Measles, 2 Pertussis and 1 Meningitis were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 2463 patients consultations in week 41, 2013. Total 4 alerts were reported and appropriate measures were taken in week 41, 2013. Altogether 1 alerts each for Measles, Acute Flaccid Paralysis, Dengue Fever and VHF were reported and responded.

Taiz Governorate

20 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7005 patients consultations in week 41, 2013. Total 12 alerts were reported and appropriate measures were taken in week 41, 2013. Altogether 3 alerts Dengue Fever, 2 each for AVH and Pertussis, 1 each for Measles, Meningitis, Acute Flaccid Paralysis, Pneumonia and NNT were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 41, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
CL	Lahj	Almosaimir, Yahar and Labaos	Almosaimir, Yahar and Labaos HFs.	eDEWS team contacted focal point. The case confirmed to be CL and treated appropriately. . Wasnot samples collected .	3	0
Pertussis	Lahj	labaos and Radfan	labos and Radfan HFs.	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
NNT	Lahj	labos	labos Hospital	eDEWS team contacted focal point, cases were confirmed to be NNT and treated appropriately	2	0
Measles	Lahj	Tuban	MCH Alwottah	Measles focal point was contacted and information was shared; Field investigation and Blood sample was collected from the case .	1	0
AVH	Lahj	Radfan	Radfan Hospital	eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately	4	0
Measles	Aden	Al Mansura, Al-Mualla, Al-Tawahi and Al-Shaikh Othman	Al-Wali, Al-Mualla, Al-Tawahi and Al-Wahdah HFs.	eDEWS team contact focal point, information shared, Blood samples was collected from one case and will be sent to sana'a central Lab. For Lab. Confirmation.	4	0
Pertussis	Aden	Craiter and Ash Shaikh Outhman	Al-Shaab and Al-Wahdah HFs.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	5	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact meningitis focal point, cases diagnosed as meningitis and treatment was given. Only one case was from Aden the other three were from different governorates. CSF was collected from two cases.	4	0
DF	Abyan	Lawdar	Lawdar Hospital	eDEWS team contact focal point, Abyan surveillance coordinator was informed, information shared, no blood samples were collected from cases, 3 cases were from Lowdar and 3 from different sites, full address of cases were not registered, further search will be conducted for cases and for samples collection. On week 40, two blood samples for suspected dengue fever was collected and sent to sana'a central Lab. For Lab. Confirmation by the surveillance coordinator.	6	0
VHF	Abyan	Lawdar	Lawdar Hospital	eDEWS team contact focal point, Abyan surveillance coordinator was informed, information shared, no blood sample was collected from the case. The patient brought to Aden governorate for medical advice, further search for the case is on goinig.	1	0
Measles	Abyan	Khanfir	Alkawd HC	On week 39, nine cases were reported, after further investigation and visit to Alkawd HC, five cases proved to be chickenbox (clinically), on job training about the case definition of measles was conducted. This week, one case was reported, focal point was informed to follow the case for blood collection.	1	0
AFP	Abyan	Khanfir	MCH Ja'ar	eDEWS team contact AFP coordinator, the case was a suspected AFP, stool samples were collected and will be sent to central survillance center in Sana'a for Lab confirmation.	1	0
DF	Taiz	Al Mudhaffar and Al-Qahirah	Almodafar, Al-Hikma and Labs. National Center HFs.	Focal point contactedd , information shared , 10 samples results were positive for DF (Elisa test) the other cases diagnosed in outpatient, no full information was registered. The importance of registration of data was discussed.	36	0
AVH	Taiz	Al Qahirah	Alhikma and Sweeden Hospital	Focal point contacted , information shared , samples were sent to the HF lab. , 11 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was discussed again.	21	0
Pertusis	Taiz	Al Qahirah	Alrawda Hospital	eDEWS team contact focal point, cases were diagnosed clinically using case definition by doctors. Antibiotic treatment was given to the patients.	7	0
Pertusis	Taiz	Al Qahirah	Sweden Hosp.	eDEWS team contact focal point, the case was a 2 month male child admitted with a diagnosis of pertusis. The patient is treated with antibiotics.	1	0
Menganitis	Taiz	Al Qahirah	Sweden Hosp.	focal point was contact, information shared, cases were diagnosed and CSF samples were collected, all samples was negative (no growth).	17	0
AFP	Taiz	Al Qahirah	Sweden Hosp.	eDEWS team contact AFP focal point, information shared, the two cases reported as AFP, stool samples were collected from cases and close contact and sent to central survillance center in Sana'a for Lab confirmation.	2	0
Measles	Taiz	Al Qahirah	Sweden Hosp.	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
Penumonia	Taiz	Al Qahirah	Sweden Hosp.	A female child aged 40 days from Saber, admitted to hospital on 8/10/2013 with a diagnosis of pnumonia. She came in a bad condition (loss of concious and gasping), died on 9/10/2013.	17	1
NNT	Taiz	Al Qahirah	Sweden Hosp.	A male neonate aged 6days from shara'ab, was deliverd normaly at a privat clinic. The mother didn't have any antinatal care (and was not vaccinated with antitetanus vaccine). The neonate developed muscle spasm, continious crying and refused sucking. He died on 8/10/2013 in hospital.	2	2

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.