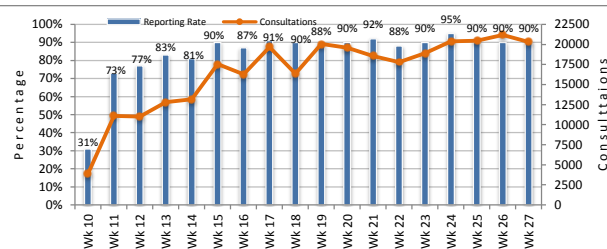


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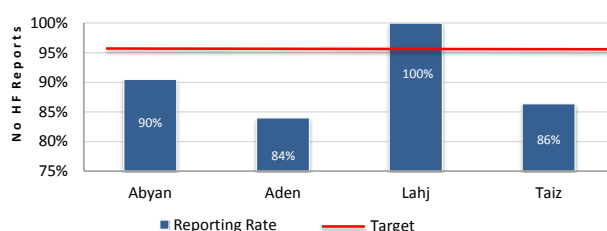
Highlights

- During week no 27, 2013; 90% (84/93) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 20318 compared to 21190 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 27, 2013; Of these, 31 alerts were verified as true for further investigations with appropriate response.
- Altogether 13 alerts for Measles, 5 Pertussis, 3 each for AVH, Meningitis, 2 each for Acute Flaccid Paralysis, C. Leishmaniasis, and 1 each for Dengue Fever, Pneumonia 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 10 to 27, 2013



Distribution of Reporting Rates by Governorates (Epi-week 27, 2013)



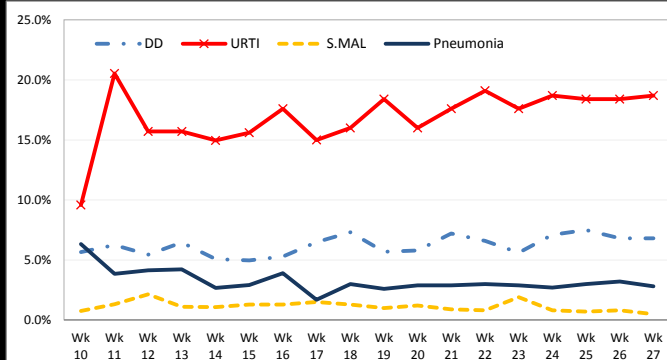
Leading Priority Diseases - Pilot Governorates (Epi-week 27, 2013)

- URTI (18.7%), suspected malaria (0.5%), OAD (6.6%) and Pneumonia (2.8%) remain the leading causes of morbidity representing a total of 28.6%.
- 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 6.8% and Pneumonia 2.8% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.34% and Pneumonia 1.61% of total morbidity in the <5 years age group.

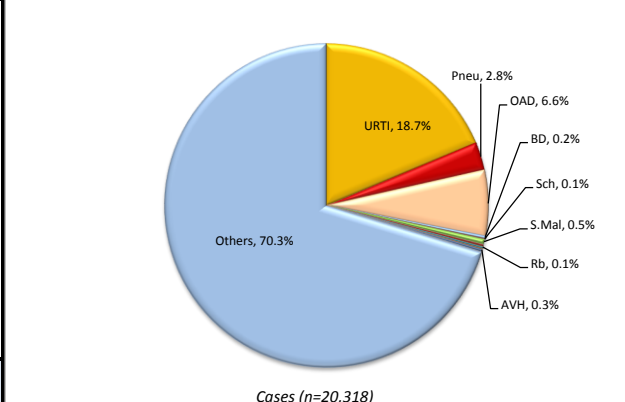
32 districts from 4 Governorates reported to eDEWS in week 27, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 27, 2013

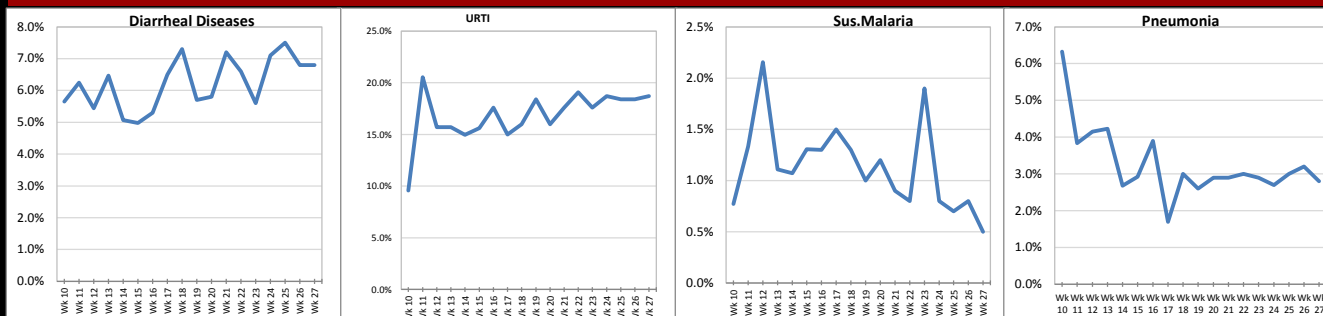


Proportional Morbidity for Leading Priority Diseases - Epiweek 27, 2013

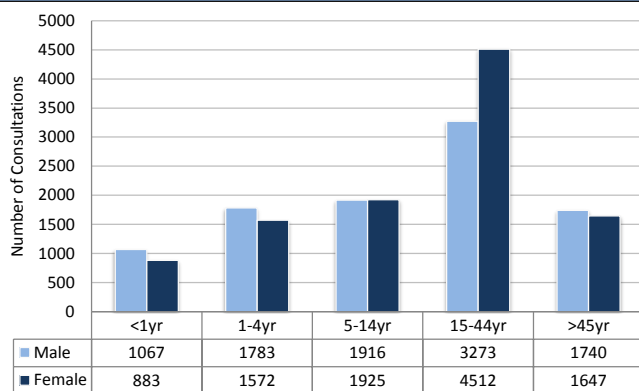


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 27, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 27, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 27, 2013 (1st March 2013 to 4th July 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	51601	17.2%
Diarrheal Diseases	18839	6.3%
Suspected Malaria	3328	1.1%
Pneumonia	9135	3.1%
Others	216258	72.3%
Total (All consultations)	299161	100%

Leading Diseases by Governorate, Epiweek 27

- URTI was highest in Governorate Aden (28.31%) this week.
- Diarrheal Disease was highest in Governorate Aden (7.66%) this week.

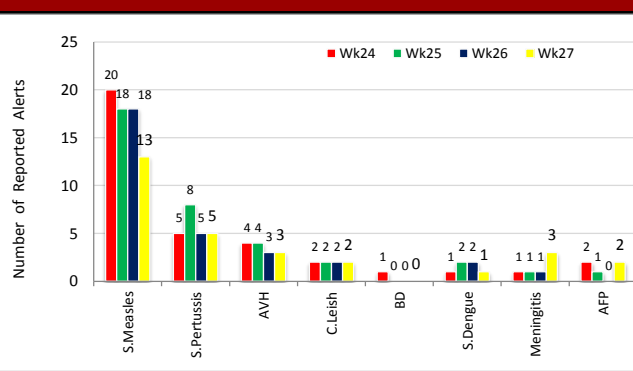
Distribution of consultations of leading diseases by Governorates, Epiweek 27

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	499	2117	398	795	3809
Pneumonia	115	186	162	104	567
Other Acute Diarrhea	275	571	68	418	1332
Bloody Diarrhea	4	2	0	34	40
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	0	1	0	14	15
Malaria	14	37	20	28	99
Meningitis	0	7	1	34	42
Dengue Fever	4	2	0	0	6
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	1	0	0	27	28
Measles	3	11	7	3	24
Acute Viral Hepatitis (A & E)	5	12	4	30	51
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	0	1	1	0	2
Cutaneous Leishmaniasis	2	0	0	0	2
Diphtheria	0	0	0	0	0
Pertussis	1	7	4	1	13
OtherUn	0	0	0	0	0
Other Consultations	2911	4524	1260	5593	14288
Total Consultations	3834	7478	1925	7081	20318

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 27, 2013		System Gen. Alerts (week 27)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	99	1	5	0	5	0
Measles	311	0	13	0	13	0
AFP	14	0	2	0	2	0
Schistosomiasis	4	0	0	0	0	0
Bloody Diarrhoe	10	0	0	0	0	5
AVH	50	2	3	0	3	4
Dengue fever	21	0	1	0	1	0
Meningitis	22	0	3	0	3	0
CL	26	0	2	0	2	0
NNT	6	0	1	0	1	0
OAD	1	0	0	0	0	0
VHF	1	0	0	0	0	0
Pneumonia	5	0	1	0	1	0
Total	570	3	31	0	31	9

Number of Alerts Received and Responded (Epiweeks 24 and 27, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3834 patients consultations in week 27, 2013. Total 8 alerts were reported and appropriate measures were taken in week 27, 2013. Altogether 3 alerts for Measles, 2 C. Leishmaniasis, and 1 for each AVH, Dengue Fever and Pertussis were reported and responded.

Aden Governorate

21 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7478 patients consultations in week 27, 2013. Total 8 alerts were reported and appropriate measures were taken in week 27, 2013. Altogether 5 alerts for Measles, and 1 each for Pertussis, Acute Flaccid Paralysis and Meningitis were reported and responded.

Abyan Governorate

19 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 1925 patients consultations in week 27, 2013. Total 6 alerts were reported and appropriate measures were taken in week 27, 2013. Altogether 2 alerts each for Measles, Pertussis, and 1 each for Acute Flaccid Paralysis and Meningitis were reported and responded.

Taiz Governorate

19 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7081 patients consultations in week 27, 2013. Total 9 alerts were reported and appropriate measures were taken in week 27, 2013. Altogether 3 alerts for Measles, 2 AVH, and 1 each for Pertussis, Meningitis, Pneumonia and NNT were reported and responded.

Alert/Outbreaks Responded in Epi-week 27, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Radfan, Tur Al-Baha and Al-Hawatah	Radfan, Tur Al-Baha and Ibn Khaldoun HFs.	Measles focal point was contacted and information was shared; Field investigation and Blood samples were collected from the cases and sent to sana'a central Lab. For Lab. Confirmation.	3	0
Pertussis	Lahj	Al-Had	Al-Had Hospital	SC has planned to visit the HF for further investigations and appropriate response.	1	0
DF	Lahj	Tuban	Sabar HC	District coordinator contacted, information shared, sample was collected and sent to lab., results are awaited.	3	0
Measles	Aden	Al Mansura, Al Mualla, Craiter, Dar Sad and Ash Shaikh Outhman	Al-Wali, Al-muala, Al-Maidan, Al-Basateen and Al-Wahdah HFs.	eDEWS team contact focal point, information shared, Blood samples were collected from the 4 cases and sent to sana'a central Lab. For Lab. Confirmation.	11	0
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contacted focal point, case was diagnosed clinically using case definition, No blood samples were collected. Antibiotic treatment was given to the patients.	7	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contacted focal point, information shared, samples was taken, follow up to find out the results. (one case from Abyan and 5 cases from three different districts in Aden)	6	0
AFP	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contacted focal point, the case was a suspected AFP, Admitted in Al-wahdah hospital, surveillance coordinator was informed, stool samples was collected and sent to central surveillance center in Sana'a. (M,14Y)	1	0
Pertussis	Abyan	Lawdar and Khanfar	AlAin and Al-Razi HFs.	eDEWS team contacted focal point, cases was diagnosed clinically using case definition, No blood samples were collected. Antibiotic treatment was given to the patients. (The three cases was not vaccinated)	4	0
Measles	Abyan	Mudiyah and Khanfar	Mudiya and MCH Ja'ar HFs.	eDEWS team contact focal point, information shared, Blood samples were collected from one case only and sent to sana'a central Lab. For Lab. Confirmation.	7	0
AFP	Abyan	Mudiyah	Mudiyah Hosp.	eDEWS team contacted focal point, the case was a suspected AFP, surveillance coordinator was informed, stool samples will be collected and sent to central surveillance center in Sana'a. (F,3Y)	1	0
Meningitis	Abyan	Khanfir	Alrazi Hospital	eDEWS team contacted focal point, the death case was a female, 11 years, came to casualty in a very bad condition, doctor in duty diagnosed the case as suspected meningitis, the case died few hours after admission. No samples was collected.	1	1
Pneumonia	Taiz	Al Qahirah	Sweden Hospital	The death cases were for : (10 months M child from Wassab, admission date 29/06/2013, Death date 1/07/2013) (7 months M child from Alodeen, admission date 29/06, death date 30/06) and (3 months F child from Shameer, admission date 2/7/2013, death on the same day), C/O high fever, breathing difficulty, cough, cyanosis.	21	3
Meningitis	Taiz	Al Qahirah	Sweden Hospital	District coordinator contacted, information shared, Samples were sent to the HF lab. With negative result (No growth)	32	0
Measles	Taiz	Al Qahirah, At Taiziyah and Al-Mukha	Sweden, 22 May and Al-Mukha HFs.	District coordinator contacted, information shared, samples were collected and sent to central lab. In Sanaa, Result is awaited	6	0
NNT	Taiz	Al Qahirah	Sweden Hospital	The suspected NNT death case (7 days F child from Khadeer) was admitted to hospital on 26/06/2013 C/O convulsion and inability to breast feed (sucking) since she was 3 days old, Antitetanus toxoid have been started, death date 27/06/2013.	0	1
Pertussis	Taiz	Al Qahirah	Al-Tawon Hosp.	The suspected Pertussis cases (2 ys M 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.	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.