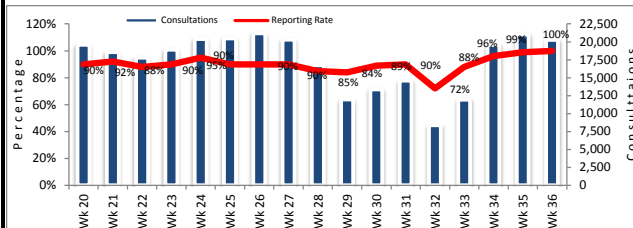


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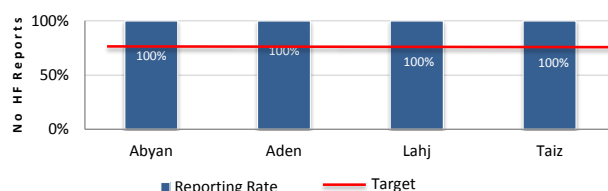
Highlights

- During week no 36, 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 20270 compared to 21014 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 36 alerts were generated by eDEWS system in week 36, 2013; Of these, 31 alerts were verified as true for further investigations with appropriate response.
- Altogether 13 alerts Measles, 6 Pertussis, 4 each for AVH and Dengue fever, 2 Meningitis, and 1 each for C.Leishmaniasis and Acute Flaccid Paralysis 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 36, 2013



Distribution of Reporting Rates by Governorates (Epi-week 36, 2013)



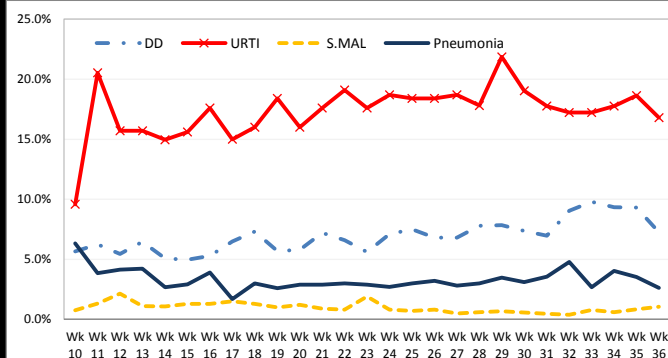
Leading Priority Diseases - Pilot Governorates (Epi-week 36, 2013)

- URTI (16.8%), suspected malaria (1%), OAD (7.2%) and Pneumonia (2.6%) remain the leading causes of morbidity representing a total of 27.6%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.1% of this morbidity.
- All diarrheal disease comprised 7.3% and Pneumonia 2.6% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.79% and Pneumonia 1.6% of total morbidity in the <5 years age group.

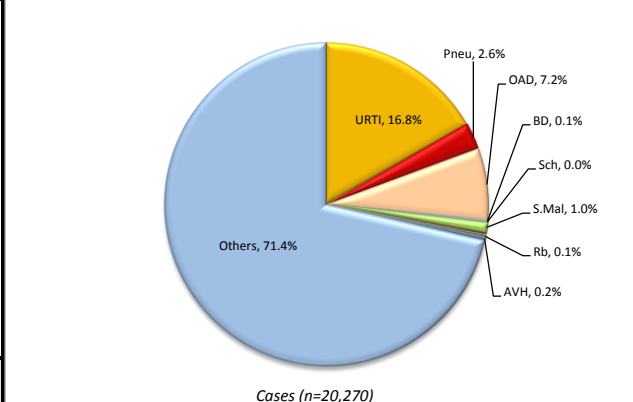
32 districts from 4 Governorates reported to eDEWS in week 36, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 36, 2013

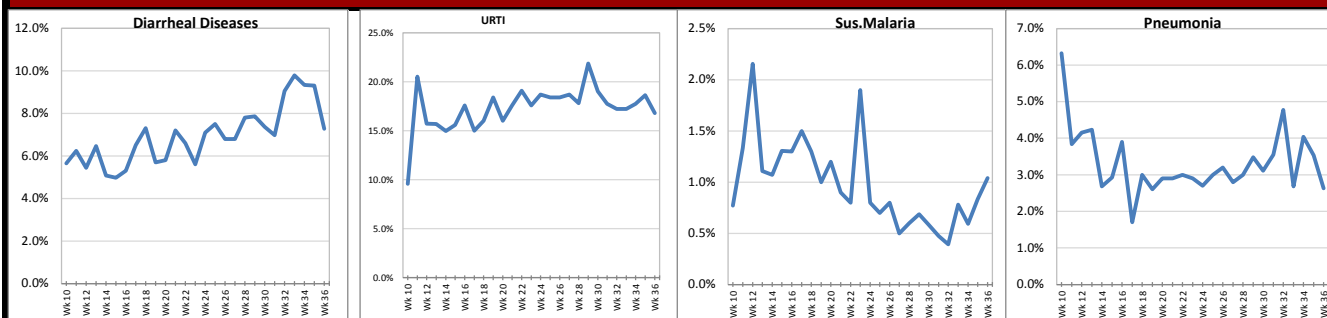


Proportional Morbidity for Leading Priority Diseases - Epiweek 36, 2013

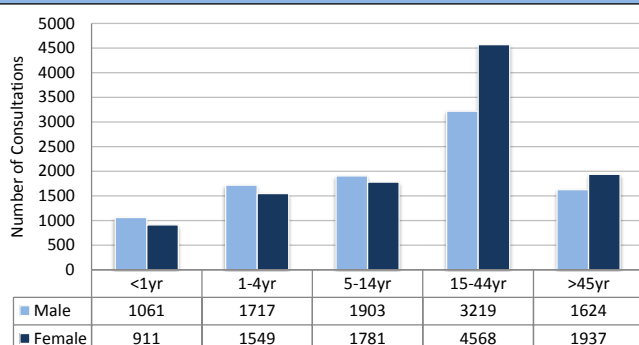


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 36, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 36, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 36, 2013 (1st March 2013 to 5th Sept. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	76605	17.5%
Diarrheal Diseases	30262	6.9%
Suspected Malaria	4285	1.0%
Pneumonia	13776	3.2%
Others	311933	71.4%
Total (All consultations)	436861	100%

Leading Diseases by Governorate, Epiweek 36

- URTI was highest in Governorate Aden (24.08%) this week.
- Diarrheal Disease was highest in Governorate Lahj (10.05%) this week.

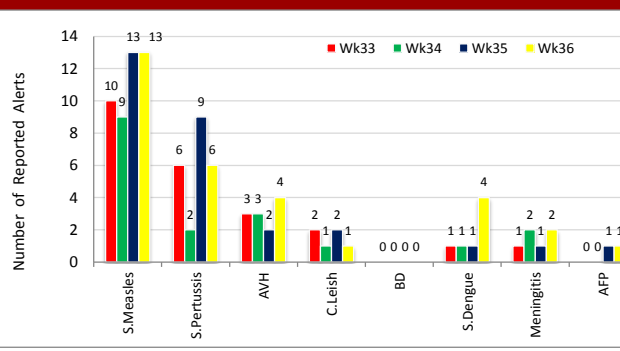
Distribution of consultations of leading diseases by Governorates, Epiweek 36

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	398	1752	430	824	3404
Pneumonia	70	177	173	113	533
Other Acute Diarrhea	328	595	159	374	1456
Bloody Diarrhea	7	3	0	7	17
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	0	0	1	6	7
Malaria	20	32	16	143	211
Meningitis	0	4	0	31	35
Dengue Fever	0	0	0	31	31
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	3	0	0	15	18
Measles	4	7	3	3	17
Acute Viral Hepatitis (A & E)	11	6	0	33	50
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	0	0	0	1	1
Cutaneous Leishmaniasis	1	0	0	0	1
Diphtheria	0	0	0	0	0
Pertussis	1	6	2	0	9
OtherUn	0	0	5	0	5
Other Consultations	2490	4694	1491	5800	14475
Total Consultations	3333	7276	2280	7381	20270

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 36, 2013		System Gen. Alerts (week 36)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	147	2	6	0	6	0
Measles	392	0	13	0	13	1
AFP	27	0	1	0	1	0
Schistosomiasis	6	0	0	0	0	0
Bloody Diarrhea	10	0	0	0	0	2
AVH	72	2	4	0	4	1
Dengue fever	29	0	4	0	4	0
Meningitis	34	0	2	0	2	0
CL	35	0	1	0	1	0
NNT	11	0	0	0	0	0
OAD	3	0	0	0	0	1
VHF	1	0	0	0	0	0
Pneumonia	9	0	0	0	0	0
Total	776	4	31	0	31	5

Number of Alerts Received and Responded (Epiweeks 33 and 36, 2013)



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Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3333 patients consultations in week 36, 2013. Total 7 alerts were reported and appropriate measures were taken in week 36, 2013. Altogether 4 alerts Measles, and 1 each for C. Leishmaniasis, AVH and Pertussis were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7276 patients consultations in week 36, 2013. Total 10 alerts were reported and appropriate measures were taken in week 36, 2013. Altogether 6 alerts Measles, 3 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 2280 patients consultations in week 36, 2013. Total 3 alerts were reported and appropriate measures were taken in week 36, 2013. Altogether 2 alerts Pertussis and 1 Measles were reported and responded.

Taiz Governorate

22 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7381 patients consultations in week 36, 2013. Total 11 alerts were reported and appropriate measures were taken in week 36, 2013. Altogether 4 alerts Dengue Fever, 3 AVH, 2 Measles, and 1 each for Meningitis and Acute Flaccid Paralysis were reported and responded.

Outbreak/Alerts Investigated and Responded in Epi-week 36, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Al-Hawtah, Al-Musaimer, Radfan and Tuban	Ibn Khaldoon, Al-Musaimer, Radfan and Al-Sharif HFs.	Measles focal point was contacted and information was shared; Field investigation and Blood sample were collected from the cases and sent to sana'a central Lab. For Lab. Confirmation.	4	0
CL	Lahj	Al-Hawtah	Ibn Khaldoon Hospital	The cases confirmed to be CL and treated appropriately	1	0
Pertussis	Lahj	Labaos	Labaos Hospital	Lahj Surveillance Coordinator, it was informed that SC will visit the HF for further investigations and community health education about immunization.	1	0
AVH	Lahj	Labaos	Labaos Hospital	The cases confirmed to be AVH and treated appropriately	5	0
Measles	Aden	Al Mansura, Al-Tawahi, Al-Mualla and Craiter	Al-Wali, Al-Qalloaa, Al-Mualla, Hashed, Al-Maidan and Al-Qahirah HFs.	eDEWS team contacted focal point, information shared. Blood samples were collected from 5 cases and will be sent to sana'a central Lab. For Lab. Confirmation.	6	0
Pertussis	Aden	Ash Shaikh Outhman, Khor Maksar and Al-Buraigah	Al-Memdara MCH, Khor Maksar and Beer Ahmed HFs.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment were given to the patients.	6	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact focal point, the three cases diagnosed as meningitis, no samples were collected. The three cases are from three different governorate (Aden, Lahj and Abyan)	3	0
Pertussis	Abyan	Khanfir and Lawdar	Alrazi and AlAin HFs.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Immunization status were checked. Antibiotic treatment were given to the patients.	2	0
Measles	Abyan	Khanfir	MCH Ja'ar	eDEWS team contact focal point, information shared, Blood samples were collected from cases and will be sent to sana'a central Lab. For Lab. Confirmation.	3	0
DF	Taiz	Al Mudhaffar and Al-Qaherah	Alhikma, Al-Mudhaffar, Yemen International, Al-Tawan HFs.	Focal point contacted, information shared, samples were sent to lab., 13 samples results were positive (Elisa test), patients are from different areas in Taiz.	29	0
AVH	Taiz	Al Mudhaffar and Al-Qaherah	Alhikma, Lab. National and Sweeden HFs.	Focal point contacted, information shared, samples were sent to lab., results are awaited.	23	0
Measles	Taiz	Ash Shamayatayn and Al-Qahirah	Khalifa and Al-Tawon HFs.	Focal point contacted, information shared, blood samples were collected but weren't sent yet to the central lab in Sanaa.	2	0
Meningitis	Taiz	Al Qahirah	Sweeden Hosp.	Focal point contacted, information shared, samples were sent to the HF lab. With negative results (No growth),	31	0
AFP	Taiz	Al Qahirah	Sweeden Hosp.	Focal point was contacted, information shared, the suspected AFP case aged 7 years M child from Alhasha (Aldalha governorate) brought to Sweeden Hosp., stool sample was collected and will be sent to central surveillance center in Sana'a. A notification about this case was sent to Aldalha AFP coordinator.	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.