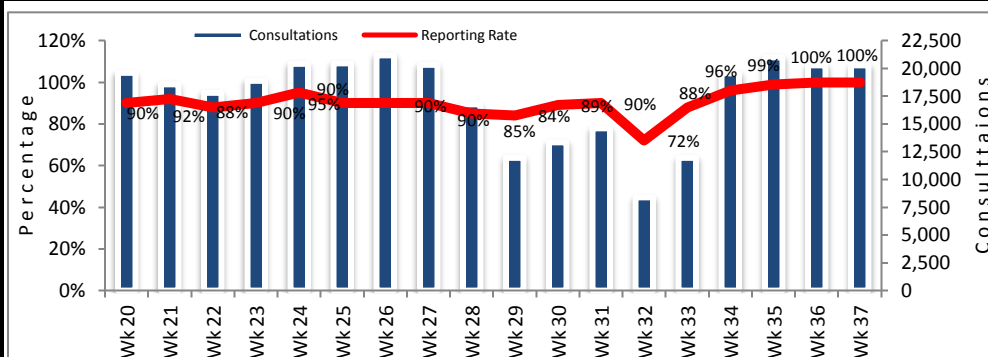


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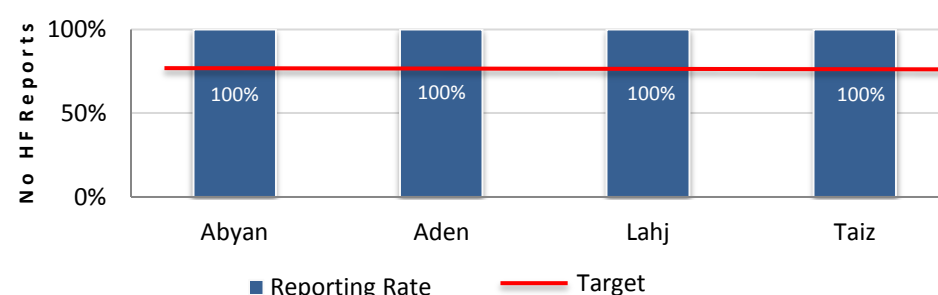
Highlights

- During week no 37, 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 20254 compared to 20270 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 38 alerts were generated by eDEWS system in week 37, 2013; Of these, 31 alerts were verified as true for further investigations with appropriate response.
- Altogether 11 alerts Measles, 7 Petrussis, 4 Dengue fever, 3 Acute Flaccid Paralysis, 2 each for AVH and Meningitis, and 1 each for C.Leishmaniasis and 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 37, 2013



Distribution of Reporting Rates by Governorates (Epi-week 37, 2013)



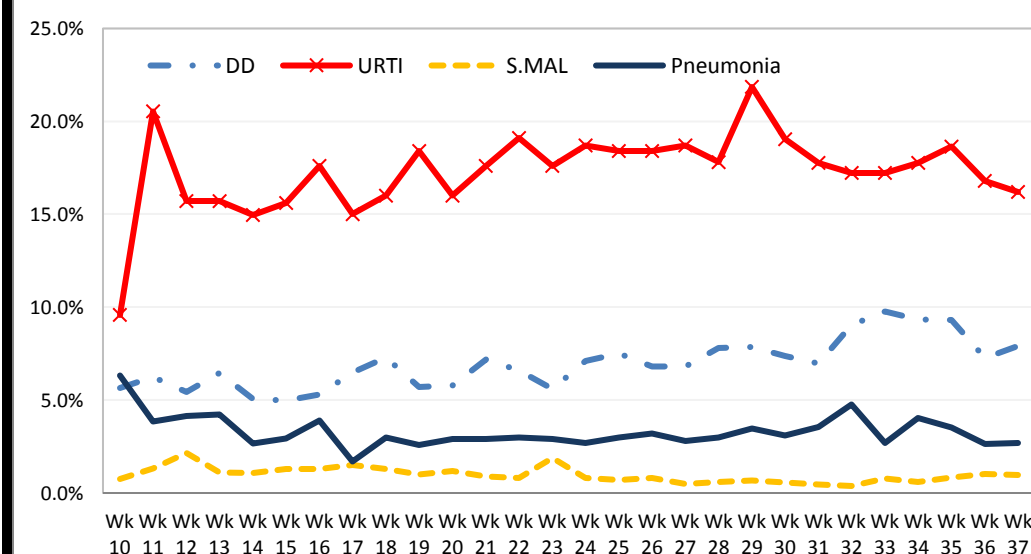
Leading Priority Diseases - Pilot Governorates (Epi-week 37, 2013)

- URTI (16.2%), suspected malaria (1%), OAD (7.8%) and Pneumonia (2.7%) remain the leading causes of morbidity representing a total of 27.7%.
- 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 7.9% and Pneumonia 2.7% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 4.11% and Pneumonia 1.6% of total morbidity in the <5 years age group.

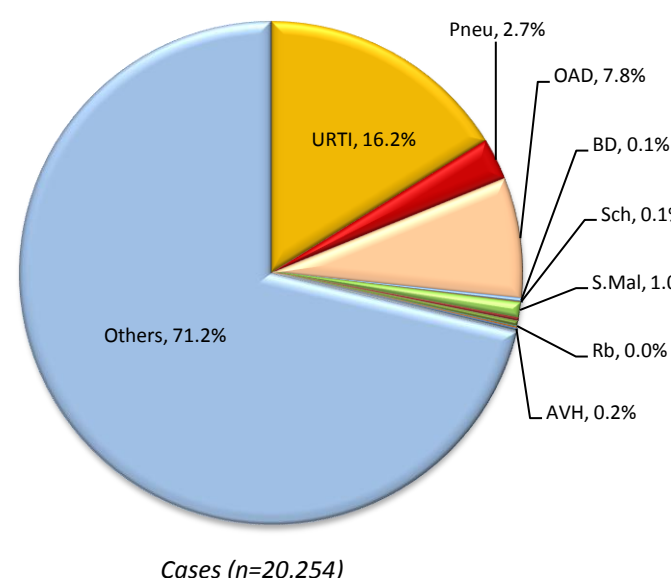
32 districts from 4 Governorates reported to eDEWS in week 37, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 37, 2013

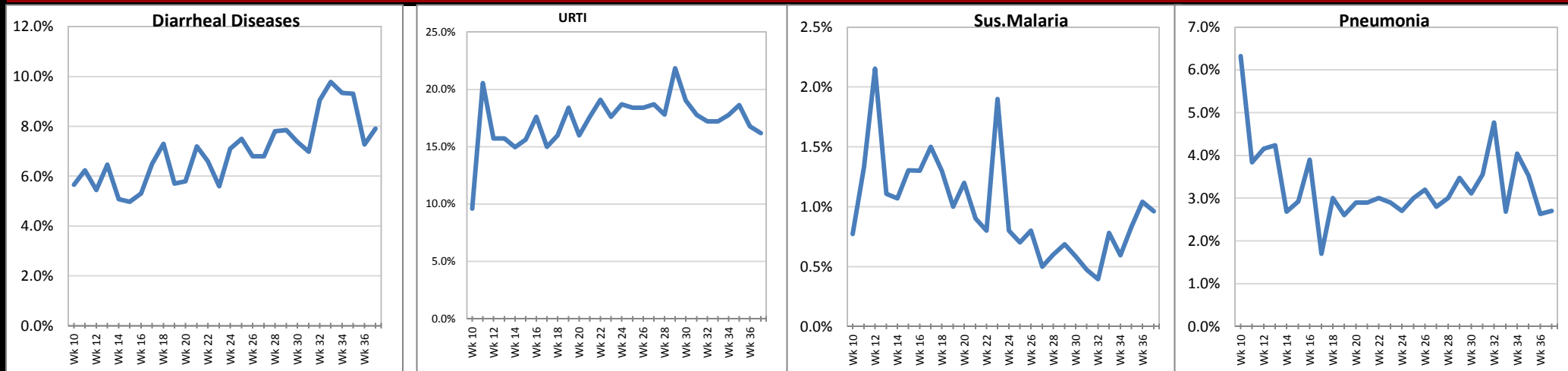


Proportional Morbidity for Leading Priority Diseases - Epiweek 37, 2013

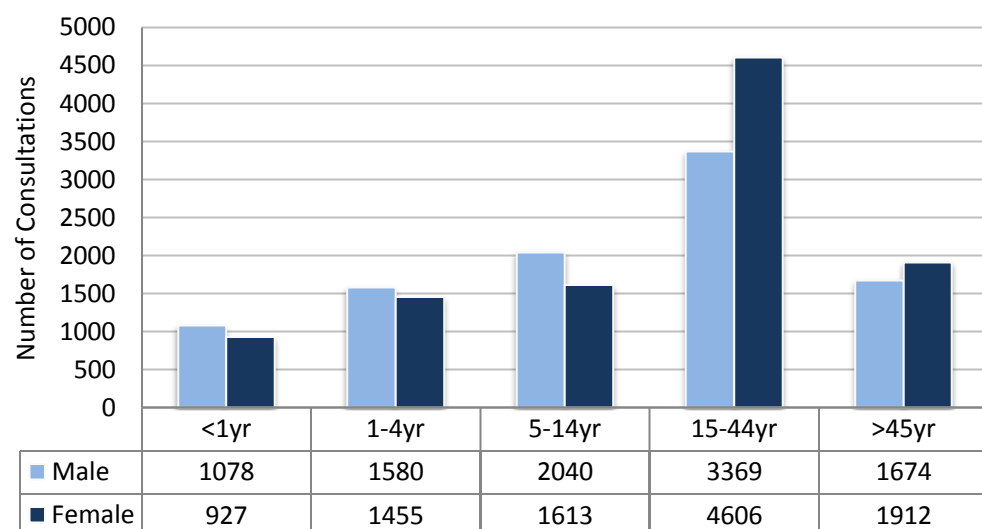


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 37, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 37, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 37, 2013 (1st March 2013 to 12th Sept. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	79886	17.5%
Diarrheal Diseases	31863	7.0%
Suspected Malaria	4480	1.0%
Pneumonia	14323	3.1%
Others	326563	71.4%
Total (All consultations)	457115	100%

Leading Diseases by Governorate, Epiweek 37

- URTI was highest in Governorate Aden (24.58%) this week.
- Diarrheal Disease was highest in Governorate Aden (10.91%) this week.

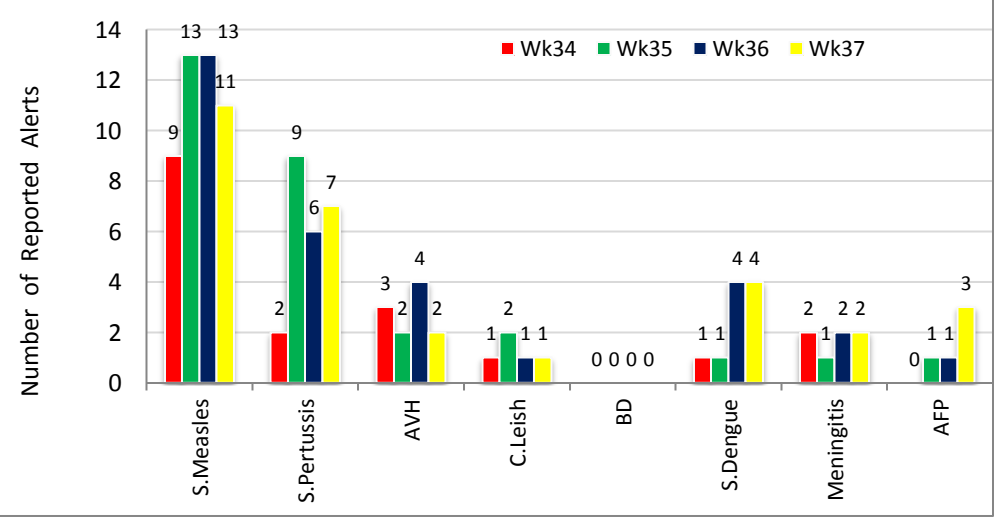
Distribution of consultations of leading diseases by Governorates, Epiweek 37

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	362	1604	480	835	3281
Pneumonia	75	170	204	98	547
Other Acute Diarrhea	325	706	165	377	1573
Bloody Diarrhea	5	6	1	16	28
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	0	0	1	13	14
Malaria	25	36	10	124	195
Meningitis	1	8	0	34	43
Dengue Fever	0	0	3	61	64
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	0	0	0	9	9
Measles	4	13	0	0	17
Acute Viral Hepatitis (A & E)	3	9	0	19	31
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	1	4	1	0	6
Cutaneous Leishmaniasis	1	0	1	0	2
Diphtheria	0	0	0	0	0
Pertussis	4	4	2	1	11
OtherUn	0	4	2	0	6
Other Consultations	2494	3961	1928	6044	14427
Total Consultations	3300	6525	2798	7631	20254

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 37, 2013		System Gen. Alerts (week 37)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	154	2	7	0	7	0
Measles	403	0	11	0	11	1
AFP	30	0	3	0	3	1
Schistosomiasis	6	0	0	0	0	0
Bloody Diarrhie	10	0	0	0	0	2
AVH	74	2	2	0	2	2
Denque fever	33	0	4	0	4	0
Meningitis	36	0	2	0	2	0
CL	36	0	1	0	1	1
NNT	11	0	0	0	0	0
OAD	3	0	0	0	0	0
VHF	1	0	0	0	0	0
Pneumonia	10	0	1	0	1	0
Total	807	4	31	0	31	7

Number of Alerts Received and Responded (Epiweeks 34 and 37, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3300 patients consultations in week 37, 2013. Total 8 alerts were reported and appropriate measures were taken in week 37, 2013. Altogether 4 alerts Measles, 2 Pertussis, and 1 each for C. Leishmaniasis and Acute Flaccid Paralysis were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6525 patients consultations in week 37, 2013. Total 13 alerts were reported and appropriate measures were taken in week 37, 2013. Altogether 7 alerts Measles, 3 Pertussis, and 1 each for Meningitis, Acute Flaccid Paralysis and Pneumonia were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 2798 patients consultations in week 37, 2013. Total 3 alerts were reported and appropriate measures were taken in week 37, 2013. Altogether 1 alert each for Pertussis, Dengue Fever and Acute Flaccid Paralysis were reported and responded.

Taiz Governorate

22 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7931 patients consultations in week 37, 2013. Total 7 alerts were reported and appropriate measures were taken in week 37, 2013. Altogether 3 alerts Dengue Fever, 2 AVH, and 1 each for Meningitis and Pertussis were reported and responded.

Outbreak/Alerts Investigated and Responded in Epi-week 37, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	Labaos and Halimain	Labaos and Halimain HFs.	eDEWS team contacted focal point, cases were diagnosed clinically using case definition by doctor in clinic, cases were treated as per standard protocol for Pertussis.	3	0
AFP	Lahj	Al-Musaimer	Al-Musaimer Hospital	eDEWS team contacted focal point, the case was a suspected AFP, Came to Al-Musaimer hospital, surveillance coordinator was informed, stool sample was collected and sent to central surveillance center in Sana'a (Male, 3 vers)	1	0
Measles	Lahj	Tuban, Al-Waaht, Saber and AlMilah	Al-Anad, AlWaaht, Saber and Almilah HFs.	Measles focal point was contacted and information was shared; Field investigation and Blood sample was collected from the case .	6	0
Measles	Aden	Al Mansura, Craiter and Al-Mualla	Al-Wali, Al-Qateea, Al-Mualla, Al-Qahirah, Al-Maidan, Hashed and 22 May HFs.	eDEWS team contact focal point, information shared, Blood samples were collected from 5 cases and will be sent to sana'a central Lab. For Lab. Confirmation.	12	0
Pertussis	Aden	Al Buraiqeh, Dar Sad and Ashaikh Outhman	Beer Ahmed MCH, Dar Sad and Al-Wahdah HFs.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment were given to the patients.	4	0
Pneumonia	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	The death case was a female aged 2 months from Lahj admitted to hospital on 5/9/2013 as a case of sever acute malnutrition with bronchpnuomonia. The case died on 9/9/2013.	36	1
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team visited the hospital, meningitis focal point was informed, cases diagnosed as meningitis and treatment was given. Death Case: A female infant aged 8 months from Abyan (Almakhzan), admitted to hospital on 24/8/2013 as menengoencephalitis case. MP'S was positive on 25/8/2013, Quinine infusion was given. On 2/9/2013 L.P was done but the result was negative. Patient died on 4/9/2013. Death Case: A female infant aged 8 months from Abyan (Lowdar), admitted to hospital on 4/9/2013 with a sever difficulty in breathing and loss of consciousness, case diagnosed as bronchpnumonia with suspected meningitis. Patient died on 6/9/2013. Death Case: A female infant 9 months old from Shabwa, admitted to hospital on 3/9/2013 with a high grade fever and vomiting. The case on antiepileptic drugs (Tegretol). On 3/9/2013 MP'S was positive, quinine infusion was given. Patient still convulsing at hospital (status epilepticus). Patient died on 5/9/2013.	7	3
AFP	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	The two cases were from Abyan (Rusod and Khunfar), eDEWS team contact AFP coordinator of Abyan, the cases were a suspected AFP, stool samples were collected and sent to central surveillance center in Sana'a for Lab confirmation.	2	0
AFP	Abyan	Khanfir	MCH Ja'ar	eDEWS team contact AFP coordinator, the case was a suspected AFP, stool samples was collected and will be sent to central surveillance center in Sana'a for Lab confirmation. (F 2.8Y)	1	0
Pertussis	Abyan	Khanfir	Gaar HU	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	2	0
DF	Abyan	Lowdar	Lowdar Hospital	eDEWS team contact focal point, cases were diagnosed as dengue fever and treatment was given. Surveillance coordinator was informed, blood samples were collected and will be sent to sana'a central Lab. For Lab. Confirmation. The three cases were from three different locations (Lowdar, Alhusn and Alhafa)	3	0
Pertussis	Taiz	Al Qahirah	Sweden Hospital	The suspected pertusis case aged 2 months M child , from Wadi Banaa , brought to Sweeden hsopital ,C/O fever , sever cough followed by whooping or vomiting since more than 10 days, routing investigations were done(C.B.C , Chest x.ray) appropriate antibiotic was given , they improved and discharged , no vaccination history or contact information was available , the importance of recording these information and immediate notification was discussed again.	1	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	Focal point contacted, information shared , samples were sent to the HF lab. With negative results (No growth) .	34	0
AVH	Taiz	Al Qahirah	Sweden and Lab. National Center.	Focal point contactedd , information shared , samples were sent to the HF lab. , 9 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was discussed again.	16	0
DF	Taiz	Al Mudhaffar and Al Qahirah	Alhikma, Yemen International and Al-Tawon HFs.	Focal point contactedd , information shared , 11 samples results were positive for DF (Elisa test) , the other patients were referred t other hospitals for financial reasons ,pateints contact information were not available , the importance of detailed patients contact information was discussed again.	54	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 desease, to facilitate a rapid public health response.