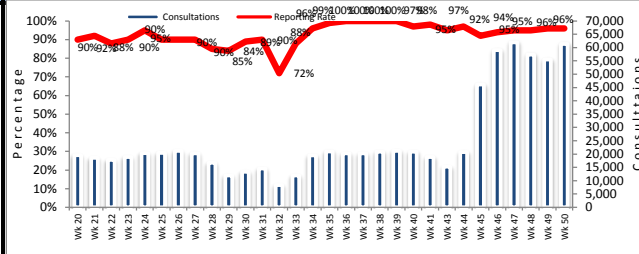


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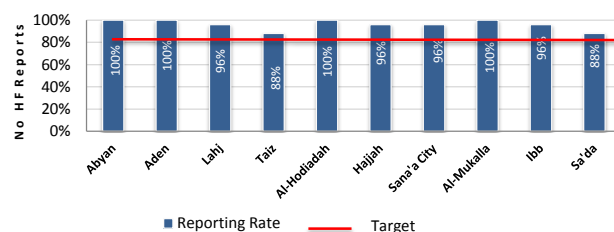
Highlights

- During week no 50, 2013; 96% (237/244) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 61405 compared to 55496 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 90 alerts were generated by eDEWS system in week 50, 2013; Of these, 61 alerts were verified as true for further investigations with appropriate response.
- Altogether 25 alerts Measles, 12 Petrusis, 8 C.Leishmaniasis, and 4 each for Dengue fever and AVH, 3 Meningitis, 2 NNT, and 1 each for Bloody Diarrhea, Schistosomiasis 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 and the expansion phase has started in 6 Governorates (Sana'a City, Hodaidah, Hajjah, Ibb, Al-Mukalla and Sa'da) in November 2013. Ongoing on site trainings to improve weekly reporting and immediate notification are underway in all governorates.

eDEWS Reporting Rates vs Consultations in All Governorates, Epi weeks 20 to 50, 2013



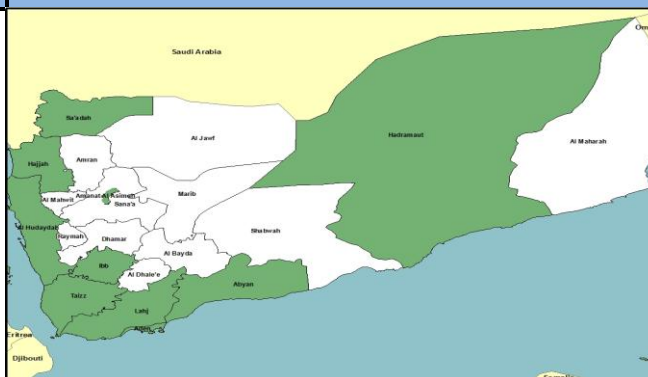
Distribution of Reporting Rates by Governorates (Epi-week 50, 2013)



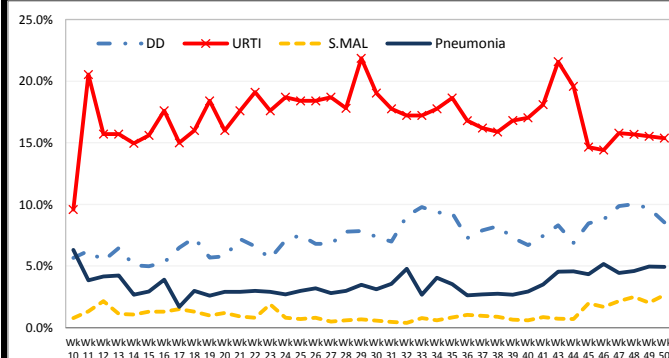
Leading Priority Diseases - 10 Governorates (Epi-week 50, 2013)

- URTI (15.4%), suspected malaria (2.6%), OAD (8%) and Pneumonia (4.9%) remain the leading causes of morbidity representing a total of 30.9%.
- 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 8.6% and Pneumonia 4.9% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 4.9% and Pneumonia 2.9% of total morbidity in the <5 years age group.

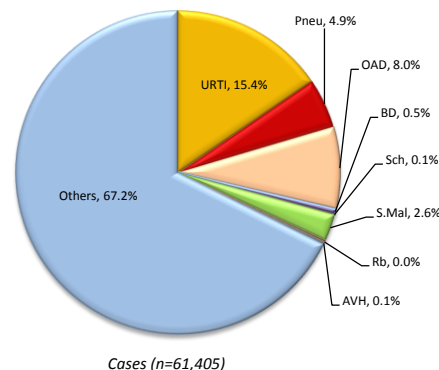
124 districts from 10 Governorates reported to eDEWS in week 50, 2013



Trends for Leading Priority Diseases in 10 Governorates - Epiweeks 10 to 50, 2013



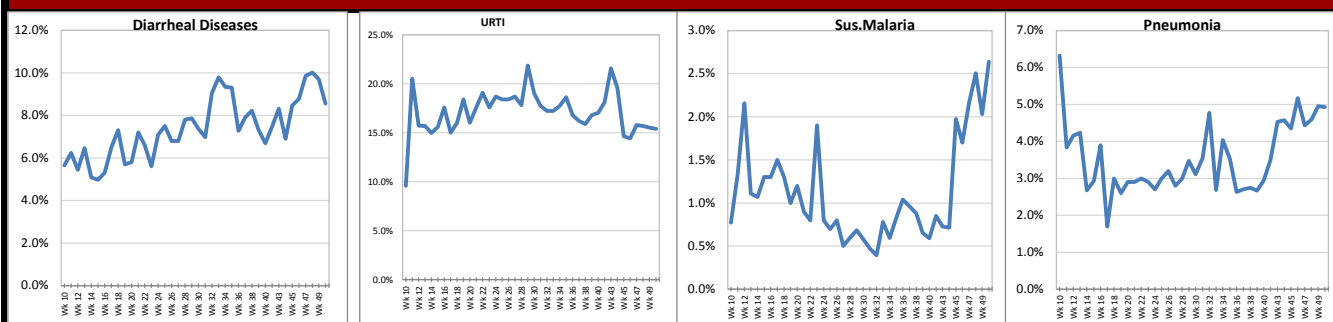
Proportional Morbidity for Leading Priority Diseases - Epiweek 50, 2013



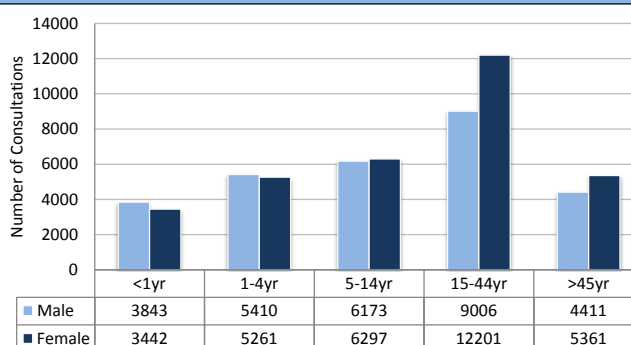
Cases (n=61,405)

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 50, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 50, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 50, 2013 (1st March 2013 to 12th Dec. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	153229	16.7%
Diarrheal Diseases	72216	7.9%
Suspected Malaria	12784	1.4%
Pneumonia	34595	3.8%
Others	643658	70.2%
Total (All consultations)	916482	100%

Leading Diseases by Governorate, Epiweek 50

- URTI was highest in Governorate Aden (31.15%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (15.56%) this week.

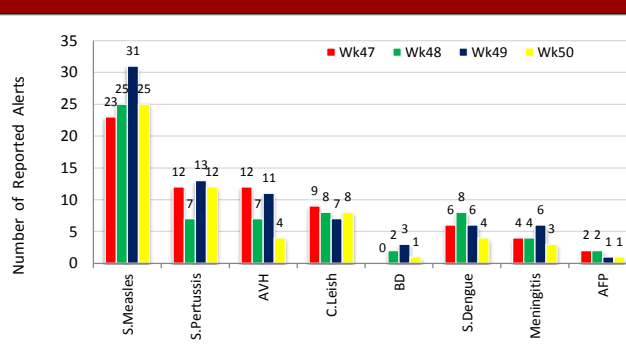
Distribution of consultations of leading diseases by Governorates, Epiweek 50

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URT	552	1841	889	983	657	836	583	471	1245	1389	9446
Pneumonia	118	198	341	208	102	661	640	265	416	77	3026
OAD	213	742	232	410	247	569	411	378	836	899	4937
BD	5	7	1	35	3	145	77	3	25	15	316
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	2	0	3	10	0	6	1	6	7	13	48
Malaria	20	30	14	65	2	98	570	718	12	91	1620
Meningitis	0	11	0	40	0	3	6	0	6	1	67
Dengue Fever	0	0	0	18	0	0	15	1	0	0	34
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0
Rabies	2	0	2	9	0	3	6	4	0	0	26
Measles	6	5	0	2	2	2	1	0	5	28	51
Acute Viral Hepatitis (A & E)	2	4	0	34	6	12	3	0	15	0	76
Neonatal Tetanus	0	0	0	1	0	0	1	0	0	0	2
Acute Flaccid Paralysis	0	0	0	0	0	0	0	1	0	0	1
Cutaneous Leishmaniasis	0	0	0	2	0	0	0	2	5	4	13
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	4	4	4	2	1	1	4	0	5	2	27
OtherUn	0	2	0	2	0	0	302	0	154	0	460
Other Consultations	2278	3067	2326	6312	2412	6990	8257	1676	4581	3356	41255
Total Consultations	3202	5911	3812	8133	3432	9326	10877	3525	7312	5875	61405

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 50, 2013		System Gen. Alerts (week 50)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	256	5	12	0	12	1
Measles	602	0	25	0	25	0
AFP	55	0	1	0	1	0
Schistosomiasis	23	0	1	0	1	1
Bloody Diarrhie	23	0	1	0	1	22
AVH	154	2	4	0	4	2
Denque fever	102	0	4	0	4	0
Meningitis	74	0	3	0	3	1
CL	92	1	8	0	8	2
NNT	26	0	2	0	2	0
OAD	10	0	0	0	0	0
VHF	4	0	0	0	0	0
Pneumonia	20	0	0	0	0	0
Total	1441	8	61	0	61	29

Number of Alerts Received and Responded (Epiweeks 47 and 50, 2013)



Lahj Governorate

24 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3202 patients consultations in week 50, 2013. Total 3 alerts were reported and appropriate measures were taken in week 50, 2013. Altogether 2 Alerts Measles and 1 Pertussis were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 5911 patients consultations in week 50, 2013. Total 9 alerts were reported and appropriate measures were taken in week 50, 2013. Altogether 4 alerts Measles, 3 Pertussis, and 1 each for Bloody Diarrhea and Meningitis were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 3812 patients consultations in week 50, 2013. Total 1 alert were reported and appropriate measures were taken in week 50, 2013. Altogether one alert Measles were reported and responded.

Taiz Governorate

22 health facilities from 8 districts in Taiz governorate reported to eDEWS with a total of 8133 patients consultations in week 50, 2013. Total 10 alerts were reported and appropriate measures were taken in week 50, 2013. Altogether 3 alerts AVH, 2 each for Measles and Dengue Fever, and 1 each for Pertussis, NNT and Meningitis were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 3432 patients consultations in week 50, 2013. Total 3 alerts were reported and appropriate measures were taken in week 50, 2013. Altogether 2 alerts Measles and 1 Pertussis were reported and responded.

Ibb Governorate

24 health facilities from 14 districts in Ibb governorate reported to eDEWS with a total of 9326 patients consultations in week 50 2013. Total 5 alerts were reported and appropriate measures were taken in week 50 2013. Altogether 2 alerts Measles and 1 each for Pertussis, AVH and Schistosomiasis were reported and responded.

Hodaidah Governorate

25 health facilities from 22 districts in Hodaidah governorate reported to eDEWS with a total of 10877 patients consultations in week 50, 2013. Total 7 alerts were reported and appropriate measures were taken in week 50 2013. Altogether 2 alerts each for Dengue Fever and Pertussis, and 1 each for Measles, Meningitis and NNT were reported and responded.

Hajjah Governorate

24 health facilities from 21 districts in Hajjah governorate reported to eDEWS with a total of 3525 patients consultations in week 50 2013. Total 3 alerts were reported and appropriate measures were taken in week 50 2013. Altogether 2 alert C. Leishmaniasis and Acute Flaccid Paralysis were reported and responded.

Amana Governorate

24 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 7312 patients consultations in week 50 2013. Total 5 alerts were reported and appropriate measures were taken in week 50 2013. Altogether 4 alerts Measles and 1 Pertussis were reported and responded.

Sa'da Governorate

22 health facilities from 15 districts in Sa'da governorate reported to eDEWS with a total of 5875 patients consultations in week 50 2013. Total 15 alerts were reported and appropriate measures were taken in week 50 2013. Altogether 8 alerts Measles, 6 C. Leishmaniasis and 1 Pertussis were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 50 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	laboas	laboas hospital	eDEWS team contact focal point, cases were diagnosed clinically using case definition by doctor in clinic, case was treated as per standard protocol for Pertussis. No full information was available, further search will be conducted.	4	0
Measles	Lahj	Tuban and AlArah	Alsharif and AlArah HFs.	eDEWS team contact focal point, information shared; a field visit was conducted and blood sample was collected from the case and will be sent to central lab in Sanaa for confirmation.	6	0
Pertussis	Aden	Craiter, AlMuala and AlShaikh Othman	Al-Shaab, AlMuala and AlWahdah HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	4	0
Measles	Aden	Craiter, AlTowahi and Dar Saad	Al-Qateea, AlTowahi, AlQaloah and AlBasateen HFs..	eDEWS team contact focal point, information shared. Blood sample were collected from 2 cases, and will be sent to sana'a central Lab. For Lab. Confirmation.	5	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A visit was conducted to Al-Wahdah Hospital, meningitis focal point was informed, LP was done for 1 case, CSF was collected for investigation, all patients were treated by antibiotics.They were investigated by Meng.Team according to the standards of their surveillance programme (sentinel site)	11	0
BD	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact focal point, 3 cases were reported, they were diagnosed clinically and treated in OPD . Cases were from different areas (No cluster of cases)	3	0
Pertussis	Abyan	Khanfar	Abr Othman HU	eDEWS team contact focal point, information share, the cases were diagnosed clinically using case definition. Patients were treated appropriately. Further investigation of cases is ongoing	1	0
NNT	Taiz	Al Qahirah	Sweden Hospital	The suspected NNT case aged 7days M child from Sharab , date of admission :9/12/2013 , he complained of fever , inability to breast feed , convulsion(Mother wasnt vaccinated) ,Antitetanus toxoid ,Antibiotics ,Diazepam and Oxygen inhalation with little improvement.	1	0
AVH	Taiz	Al Qahirah	Sweden, AlTawon and Yemen International HFs.	Focal point contactedd , information shared ,10 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was discussed again.	26	0
Pertussis	Taiz	Al Qahirah	Sweden Hospital	The eDEWS team visited the HF ,the suspected Pertusis case aged 45 days F child from AIGANADIAH, date of admission:8/12/2013, C/O fever, wheezing, cough and chest retraction ,a ppropriate treatment was given with improvment , date of discharge:11/12/2013. .	2	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	HF was visited ,, information shared , samples were sent to the HF lab. With negative results (No growth) .	39	0
Measles	Taiz	Salh	Army and AlSafwah HFs.	Focal point was contactd , information shared , sample was collected and will be send to the central lab. In Sanaa.	2	0
DF	Taiz	Al Mudhaffar and AlQahirah	Althawra and Yemen International HFs.	Focal point contacted , she informed us that the suspected DF cases had history of high fever , retro- bulbar pain ,myalgia and arthralgia , Elisa test is not available at the HF, cases were diagnosed clinically only , Medications have been started, No cluster of 3 cases in one location was reported(Alert threshold)	12	0
Pertussis	Hadramoute	addes alshargeh	addes alshargeh	eDEWS team contact focal point, information share, the cases were diagnosed clinically using case definition. Antibiotic were given to patient.	1	0
Measles	Hadramoute	Mukalla	Uneversty Hospital and MCH Center.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Samples were collected from patients and measles coordinator was informed.	2	0
AVH	Ibb	Yarim	dr.waheeb ata Hospital	focal point contact.case.investigation for HAV was done.result positive	3	0
Schi	Ibb	assabrah	nagd health center	focal point cotact.result of investigation positive.cases from different area	5	0
Measles	Ibb	almashanah and Adhihar	MCH almashanah and AlThawrah HFs.	focal point was contacted, information shared,samples were collected.sent to center lab. As the coordinator said.	2	0
Pertussis	Ibb	Adhi har	Athowra hospital	I visit of the hospital. one year age.ibb.arrived to the hospital at 9\12\2013. was vaccinated.child treatment and improvement.	1	0
Meningitis	Hodaidah	AL Hawak	AlAkxa Hosp.	eDEWS coordinator contacted meningitis focal point, cases diagnosed as meningitis and and treated appropriately ,one cases death due to sever complicated .	6	1
DF	Hodaidah	AL Hawak	AlAkxa and AlAmal HFs.	Focal point contacted , information shared , patients were diagnosed clincially only (Elisa test wasn't done) , importance of refrerance pateints to Hodaidah national lab for confirmation.	15	0
NNT	Hodaidah	AL Hawak	Althawrah Hospital	eDEWS team contacted focal point. The cases confirmed to be NNT and treated appropriately. .	1	0
Measles	Hodaidah	Ad Durayhimi	Ad Durayhimi Hospital	eDEWS coordinator contacted focal point, cases were suspected Measles , sample was collected from patient by district coordinator ,send to laboratory in Sanaa.	1	0
Pertussis	Hodaidah	Ad Durayhimi and AlHawak	Ad Durayhimi and AlThawrah HFs.	eDEWS team contacted focal point. The cases confirmed to be Pertussis and treated appropriately. .	4	0
AFP	hajjah	mustaba	mustaba hospital	eDEWS was contacted focal point, and information shared.Was diagnosed cases, according to the standard definition. 14 month old been the work of the investigation of the two cases and the collection of the samples will be sent to Sana'a	1	0
CL	hajjah	mabyan and Hajjah City	mabyan and AlJomhori HFs.	eDEWS team contacted focal point. The case diagnosed as cutaneous leishmaniasis clinically and treated appropriately.	3	0
Measles	Amana	Assafia, Azzal and Shoaob	Al-Thwra, Azzal and AlRazi HFs.	eDEWS team contact focal point, information shared blood samples collected and sent for laboratory confirmation.	5	0
Pertussis	Amana	Al-sabin	Al-sabin Hosp.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	2	0
Measles	Amana	Al-sabin	Al-sabin Hosp.	eDEWS team contact focal point, information shared. the case is 8m male with malnutrition and did not receive any vaccines, withe bad general condition. blood sample was collected and sent for lab confirmation.	1	0
Measles	Saada	Saada, Saher, Haydan, Baqem and Mjz	Al-jumhory, Dr. Mosfer, AlTalh, Haydan, Baqem, Dhahyan and Majz HFs.	eDEWS team contact focal point, information shared. Blood sample were collected from 5 cases, and will be sent to sana'a central Lab. For Lab. Confirmation.	25	0
Pertussis	Saada	Majz	Majz Health Center	eDEWS team contact focal point , information shared, the cases were clinically diagnosed and start the treetment.	2	0
CL	Saada	Saqayn, Ghamer, Razeh, Shada and Sahar	Fawt, Ghamer, Razeh, AlNatheer, AlMashaf and AlTalH HFs.	eDEWS team contact focal point, information shared, the cases transferred to Al-jumhory hospital to collect samples and start the treetment.	7	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 All governorates (Aden, Abyan, Lahj, Taiz, Hadramout, Ibb, Hodaidah, Hajjah and Al-Amana) 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.