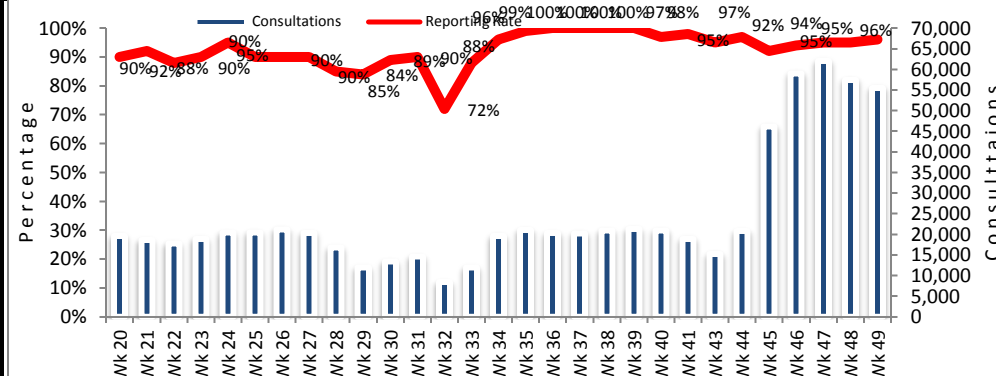


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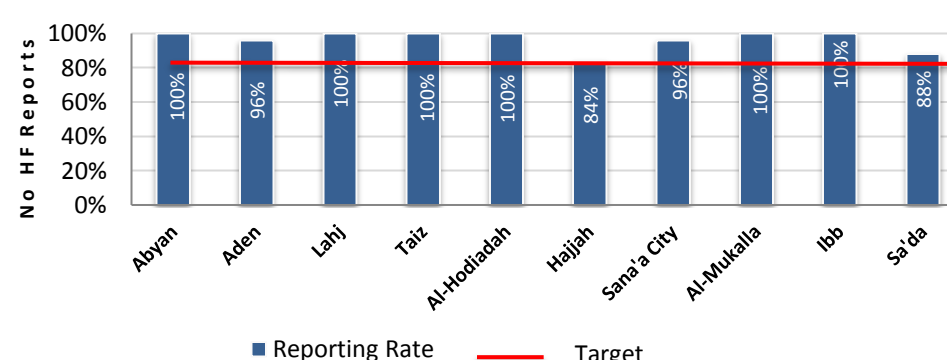
Highlights

- During week no 49, 2013; 96% (235/244) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 55496 compared to 57408 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 103 alerts were generated by eDEWS system in week 49, 2013; Of these, 79 alerts were verified as true for further investigations with appropriate response.
- Altogether 31 alerts Measles, 13 Petrussis, 11 AVH, 7 C.Leishmaniasis, and 6 each for Dengue fever and Meningitis, 3 Bloody Diarrhea, and 1 each for 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 49, 2013



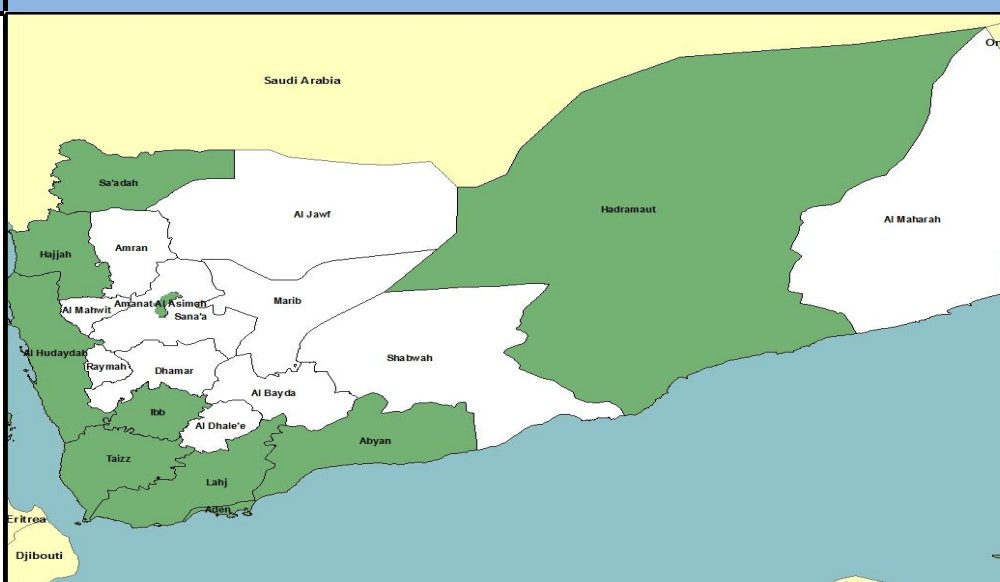
Distribution of Reporting Rates by Governorates (Epi-week 49, 2013)



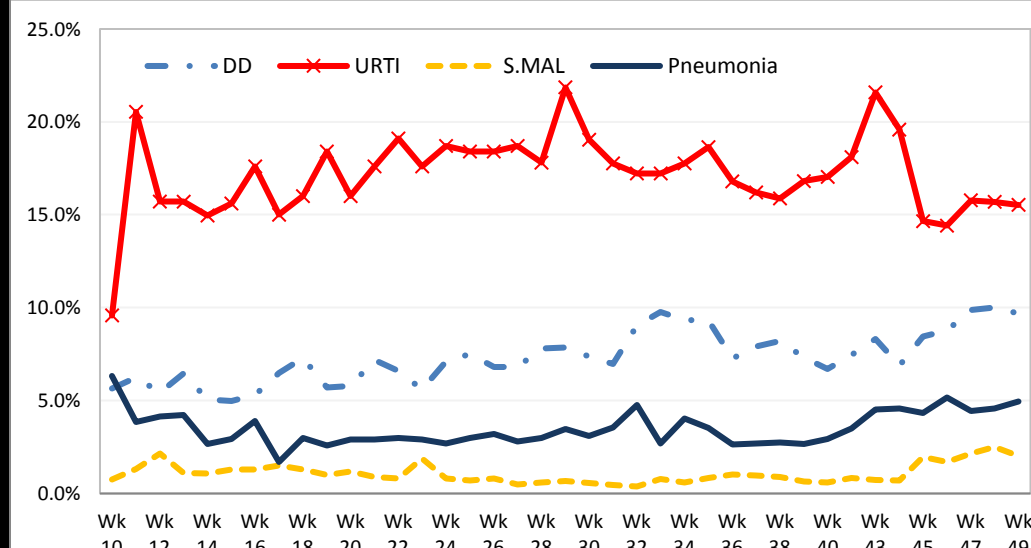
Leading Priority Diseases - 10 Governorates (Epi-week 49, 2013)

- URTI (15.5%), suspected malaria (2%), OAD (9.1%) and Pneumonia (5%) remain the leading causes of morbidity representing a total of 31.6%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.6% of this morbidity.
- All diarrheal disease comprised 9.7% and Pneumonia 5% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5.49% and Pneumonia 2.9% of total morbidity in the <5 years age group.

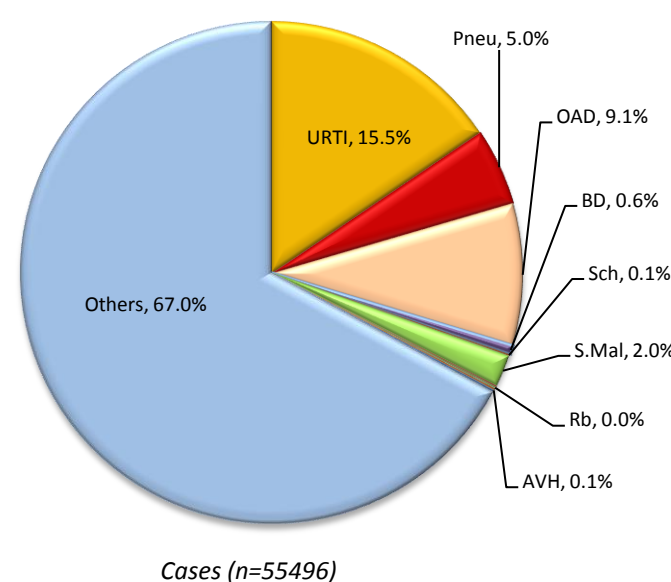
124 districts from 10 Governorates reported to eDEWS in week 49, 2013



Trends for Leading Priority Diseases in 10 Governorates - Epiweeks 10 to 49, 2013

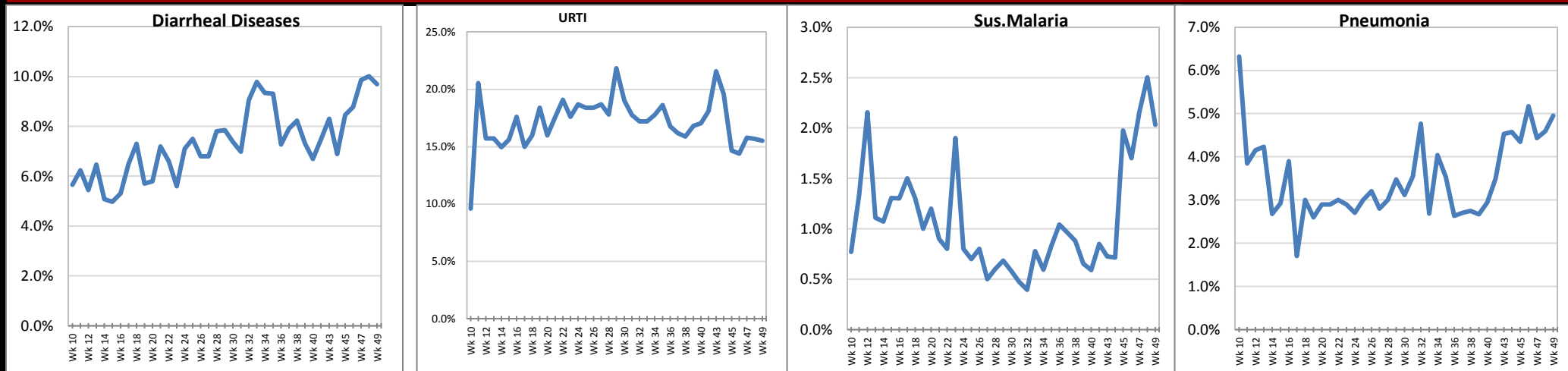


Proportional Morbidity for Leading Priority Diseases - Epiweek 49, 2013

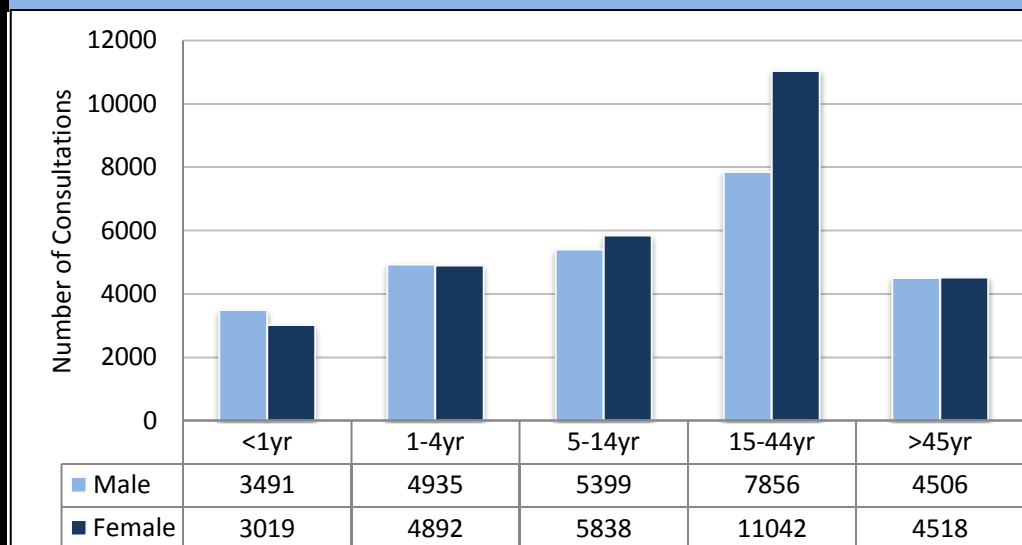


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 49, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 49, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 49, 2013 (1st March 2013 to 5th Dec. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	143783	16.8%
Diarrheal Diseases	66963	7.8%
Suspected Malaria	11164	1.3%
Pneumonia	31569	3.7%
Others	601598	70.4%
Total (All consultations)	855077	100%

Leading Diseases by Governorate, Epiweek 49

- URTI was highest in Governorate Aden (28.7%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (18%) this week.

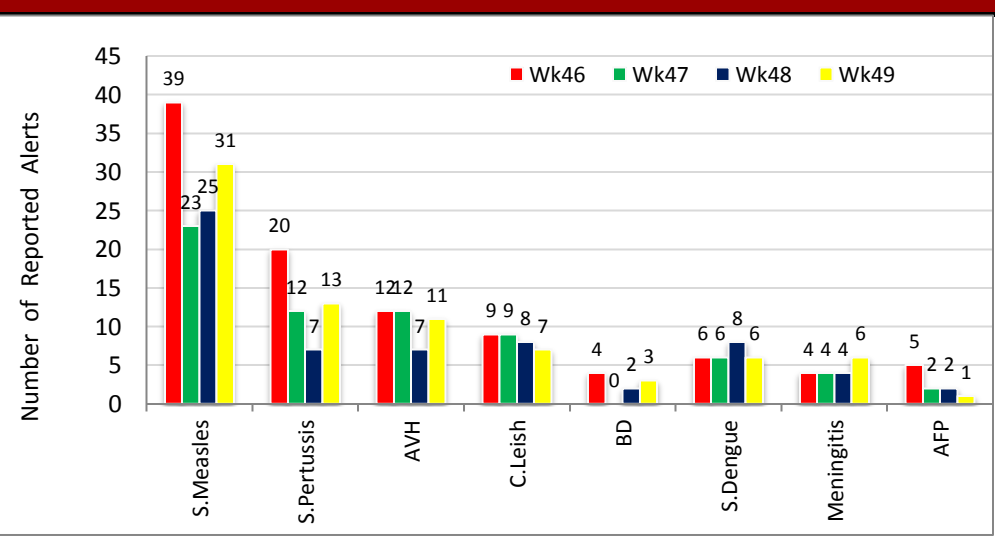
Distribution of consultations of leading diseases by Governorates, Epiweek 49

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URTI	503	1841	826	866	662	845	466	222	1065	1324	8620
Pneumonia	89	156	319	167	75	662	629	162	407	84	2750
OAD	224	683	216	359	231	702	389	346	949	962	5061
BD	6	6	1	30	3	166	66	8	12	22	320
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	0	0	1	4	0	11	0	8	9	18	51
Malaria	29	34	13	44	1	74	437	381	6	108	1127
Meningitis	0	5	0	13	1	4	5	0	11	1	40
Dengue Fever	0	1	0	27	0	0	18	0	0	0	46
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0
Rabies	0	0	2	9	0	4	2	1	0	0	18
Measles	1	5	0	0	8	3	8	2	7	22	56
Acute Viral Hepatitis (A & E)	5	13	1	14	8	20	2	1	18	0	82
Neonatal Tetanus	0	0	0	0	0	0	0	0	0	0	0
Acute Flaccid Paralysis	0	0	0	0	0	0	0	2	0	0	2
Cutaneous Leishmaniasis	1	0	0	1	1	2	1	0	13	2	21
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	1	3	0	3	2	7	0	1	2	0	19
OtherUn	0	1	0	2	0	0	69	0	20	0	92
Other Consultations	2121	3663	1784	4837	2179	6715	7861	1091	4032	2908	37191
Total Consultations	2980	6411	3163	6376	3171	9215	9953	2225	6551	5451	55496

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 49, 2013		System Gen. Alerts (week 49)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	244	5	13	0	13	0
Measles	577	0	31	0	31	0
AFP	54	0	1	0	1	0
Schistosomiasis	22	0	1	0	1	1
Bloody Diarrhie	22	0	3	0	3	21
AVH	150	2	11	0	11	1
Denque fever	98	0	6	0	6	0
Meningitis	71	0	6	0	6	0
CL	84	1	7	0	7	1
NNT	24	0	0	0	0	0
OAD	10	0	0	0	0	0
VHF	4	0	0	0	0	0
Pneumonia	20	0	0	0	0	0
Total	1380	8	79	0	79	24

Number of Alerts Received and Responded (Epiweeks 46 and 49, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 2980 patients consultations in week 49, 2013. Total 4 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 1 Alerts each for C. Leishmaniasis, Measles, AVH, and Pertussis were reported and responded.

Aden Governorate

24 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6411 patients consultations in week 49, 2013. Total 9 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 4 alerts Measles, 2 Pertussis, and 1 each for AVH, 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 3163 patients consultations in week 49, 2013. No alerts were reported and appropriate measures were taken in week 49, 2013.

Taiz Governorate

22 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 6376 patients consultations in week 49, 2013. Total 10 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 4 alerts Dengue Fever, and 2 each for AVH and Pertussis, and 1 each for C. Leishmaniasis and Meningitis were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 3171 patients consultations in week 49, 2013. Total 13 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 6 alerts AVH, 3 Measles, 1 each for Pertussis, C. Leishmaniasis, Bloody Diarrhea and Meningitis were reported and responded.

Ibb Governorate

25 health facilities from 15 districts in Ibb governorate reported to eDEWS with a total of 9215 patients consultations in week 49, 2013. Total 10 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 3 alerts each for Measles and Pertussis, 2 C. Leishmaniasis, 1 each for 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 9953 patients consultations in week 49, 2013. Total 11 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 7 alerts Measles, 2 Dengue Fever, and 1 each for Meningitis and C. Leishmaniasis were reported and responded.

Hajjah Governorate

21 health facilities from 21 districts in Hajjah governorate reported to eDEWS with a total of 2225 patients consultations in week 49, 2013. Total 3 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 1 alert each for Measles, Pertussis 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 6551 patients consultations in week 49, 2013. Total 10 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 5 alerts Measles, 3 Pertussis and 2 Meningitis were reported and responded.

Sa'da Governorate

22 health facilities from 15 districts in Sa'da governorate reported to eDEWS with a total of 5451 patients consultations in week 49, 2013. Total 9 alerts were reported and appropriate measures were taken in week 49, 2013. Altogether 7 alerts Measles, and 1 each for C. Leishmaniasis and Bloody Diarrhea were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 49, 2013

Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Alkobitah	KARASH HC	Focal point contacted , information shared , sample was collected and will be sent to the Central Lab. In Sanaa	1	0
Pertussis	Lahj	laboas	laboas hospital	eDEWS gov. surveillance office conducted visit to the HF , the suspected Pertussis case aged 52 days(Vaccinated) from Altoof village, brought to hospital on 1/12/2013 C/O fever , cough followed by whooping , appropriate treatment was given with improvment, discharge date 5/12/2013 , a field	1	0
AVH	Lahj	Alkobitah	KARASH HC	Focal point contacted, he informed us that the suspeted AVH cases were diagnosed clinically only , and appropriate treatment was given accordingly , the importance of sending samples to Lab. For	3	0
CL	Lahj	Almalah	Almalah hospital	Focal point contacted The case was diagnosed clinically and treated appropriately , No sample was collected	1	0
Measles	Aden	Al Mansura,Al-Shaikh Othman and Crieter	Al-Wali, Al-Wahdah, Al-Shaab and Al-Maidan HF's.	eDEWS team contact focal point, information shared. Blood sample were collected from 1 case, and will be sent to sana'a central Lab. For Lab. Confirmation.	5	0
Pertussis	Aden	Ash Shaikh Outhman and Crieter	Al-Wahdah and Al-Shaab HF's .	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	3	0
BD	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS focal point was contacted ,he informed us that the case was admitted by duty doc. On 24/11/2013,brought to hospital Cc/o diarrhea and malnutrition, death on 29/11/2013	1	1
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	WE contacted eDEWS focal point,who informed us that the hosp. reported 5 cases ,one was reported twice .3cases were admitted and investigated by Meng. Surveillance program officers, CSF sample for one case only was taken ,,one case was treated at the OPD	5	0
AVH	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	WE contacted eDEWS focal point,who informed us that the hosp. reported 10 cases in OPD,4 cases were from Ash Shaik Outhman (different locations), 3 cases were from unknown locations, 2 cases are from Al Mansura,1 case was from Lahj.	10	0
Pertussis	Taiz	Al Qahirah and Salah	Sweden and Al-Safwah HF's.	The eDEWS team visited the HF ,the cases from different areas, brought to hospital with C/O sever cough followed by whooping, routin blood test was done,a pppropriate treatment was given with	3	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	HF was visited ,, information shared , samples were sent to the HF lab. With negative results (No growth) .	12	0
AVH	Taiz	Al Qahirah and Al-Mudhafar	Sweden and Al-Hikmah HF's.	A visit was conducted to the HF , 2 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was	6	0
DF	Taiz	Al Mudhaffar and Al-Qahirah	Alhikma, Alrawd, Yemen International and Al-Jomhori HF's.	Focal point contacted , he informed us that the suspected DF cases had history of high fever , retro-bulbar pain ,myalgia and arthralgia , Elisa test is not avilable at the HF, cases were diagnosed clinically only , Medications have been started, No cluster of 3 cases in one location was reported(Alert	20	0
CL	Taiz	Khadir	Alraheda	Focal point contacted , pateint has typical signs of CL , appropriate treatment was given , no similar cases were reported , full contact information wasn't available.	1	0
Measles	Amana	Assafia, Al-Sabin, Main and Bani Al-Harith	Al-Thwra, Al-Majd, Al-Shaheed, Main and Al-Rawdhah HF's.	eDEWS team contact focal point, information shared blood samples collected from 5 cases and will be sent to central lab. The Cases from different districts and areas.	7	0
Meningitis	Amana	Assafia and Al-Sabin	Al-Thwra and Al-Sabin HF's.	eDEWS team contact meningitis focal point, cases diagnosed as meningitis and treatment was given. Cases from different districts. LP was done, the result was negativ.	10	0
Pertussis	Amana	Old city, Al-Sabin and Al-Wahdah	Main, Al-Sabin and Al-Shaheed HF's.	eDEWS team contact focal point, case were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.. Surveillance coordinator has been informed.	5	0
Meningitis	Hodaidah	AL Hawak	AlAksa Hosp.	eDEWS coordinator contacted meningitis focal point, cases diagnosed as meningitis and and treated appropriately	4	0
DF	Hodaidah	Bajel and Al-Hawak	Bajel and Alamal HF's.	Focal point contacted , information shared , patients were diagnosed clinically only (Elisa test wasn't done) , importance of refrerance pateints to Hodaidah national lab for confirmation.	16	0
CL	Hodaidah	Bayt Al Faqiah	Bayt Al Faqiah Hosp.	eDEWS coordinator contacted focal point. The cases confirmed to be CL and treated appropriately.	1	0
Measles	Hodaidah	Al Hali, Al-Zuhrah, Al-Hawk, Al-Zaydah, Al-Garahi and Al-Dahi	Alsalkhanah, Al-Zuhrah, Al-Rasheed, Al-Zaidiah, Al-Garahi, Al-Aksa and Al-Dahi HF's.	eDEWS coordinator contacted focal point, cases were suspected Measles , samples were collected by district coordinator ,send to laboratory in Sanaa.	8	0
Measles	Hadramut	Alridh Qosear, Dawan and Al-Mukalla	Alridh, Algowaerh and University HF's.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Samples taken and connect with coordination.	8	0
CL	Hadramut	Alridh Qosear	Alridh Hosp	eDEWS team contact focal point, information shared, the case diagnosed as cutaneous leishmaniasis by a doctor, no samples was collected from the skin lesion.	1	0
AVH	Hadramut	Alridh Qosear, Brom Maefaa and Al-Mukalla	Alridh, Qosear, Brom Maefaa, Mukalla MCH, Al-Borj and University HF's.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition and sample taken was posetive .symptomatic treatment defined by doctor.	7	0
BD	Hadramut	Alridh Qosear	Hdatum health center	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic taken.	1	0
Pertussis	Hadramut	Mukalla	MCH Mukalla	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic taken	1	0
Meningitis	Hadramut	Mukalla	MCH Mukalla	eDEWS team contact focal point, the cases were diagnosed clinically using case definition No LP sample was taken. Antibiotic taken	1	0
AFP	hajjah	Abs	abs hospital	eDEWS was contacted focal point, and information shared.Was diagnosed cases, according to the standard definition. First case from the Abs District five years old, and the diagnosis by Dr. Ghaleb al-Saadi. Hospital Abs. Second case from Qofl shamr district age of two years reference diagnosis of the dispensary, Dr. Abdullah Ashwal district Abs. Investigation done and the samples collected and will be	2	0
Measles	hajjah	hajjah city	al jumhori hospital	eDEWS was contacted focal point, and information shared .Brothers of the cases live in the hajjah city have been diagnosed clinically and was investigation. Samples were collected and will be sent to Sanaa	2	0
Pertussis	hajjah	najrah	abo hadi hospital	eDEWS was contacted focal point, and information shared. Been clinically diagnosed case of Dr. Adel Juhav. It was giving him appropriate antibiotic	1	0
Pertussis	Ibb	Yarim, Dhi Sufal and Al-Qafr	dr.waheeb ata, Al-Razi and Al-Rihab HF's.	focal point contact.cases were diagnosed clinically by doctor and treatment was given, No contact information were avilable.	7	0
Measles	Ibb	almashannah and Al-Dhihar	MCH, Alamin and AlKhansa HF's.	focal point was contacted, information shared,samples were collected.sent to center lab. As the coordinator said.	3	0
CL	Ibb	Yarim and Al-Sabrah	yahsob and Nagd HF's.	focal point was contacted,,cases were diagnosed clinically by doctor and treatment was given ,no investigation was done , no contact information was avilable.	2	0
Sch	Ibb	As ssabrah	nagd health center	Focal point was contact.positive laboratory investigation schistsomasis.from paitiont information.cases from diffirent area	5	0
AVH	Ibb	Adhi har	Dar AL SHIFA Hospital	focal point was contacted,,cases were diagnosed clinically by doctor and treatment was given ,no investigations were done , no contact information were avilable.	7	0
Measles	Saada	Saada, Sahar, Hydan, Bagim, Kitaf and Majz	Al-jumhory, Dr. Mosfer, Al-Talh, Hydan, Bagim, Ketaf and Dhahian HF's.	eDEWS team contact focal point, information shared, No blood samples were collected from the cases.	3	0
BD	Saada	Hydan	Hydan Hospetal	eDEWS team contact focal point, information shared, No blood samples were collected from the cases.	3	0
CL	Saada	Ghamr	Ghamr Health Center	eDEWS team contact focal point, information shared, and transferred to Al-jumhory hospital to start rteatment.	2	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.