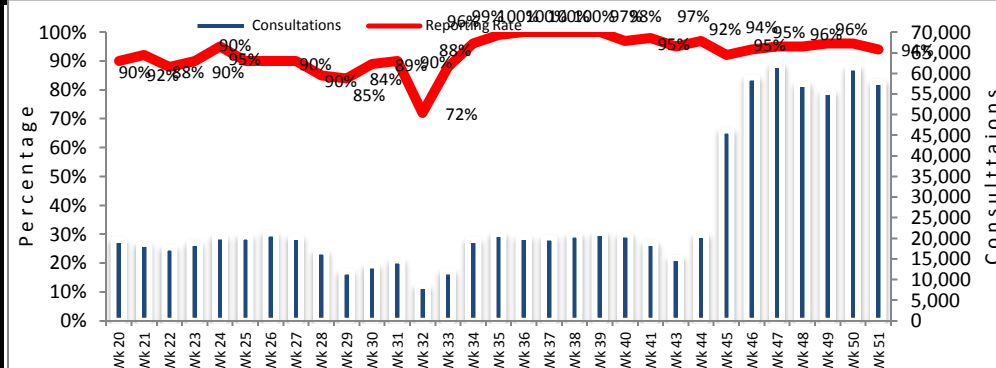


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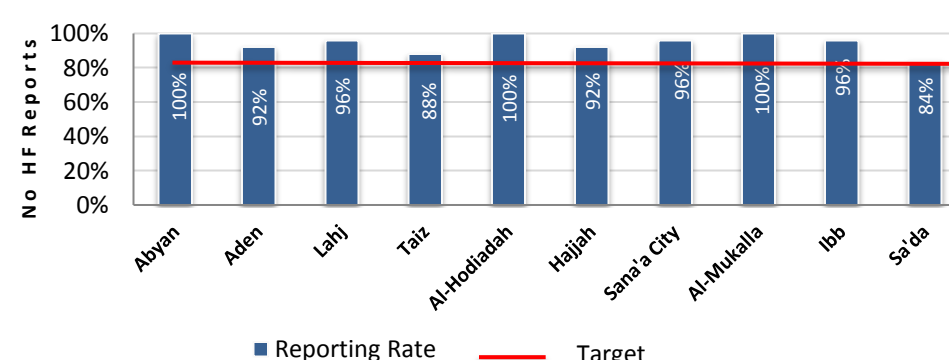
Highlights

- During week no 51, 2013; 94% (233/247) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 57958 compared to 61405 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 96 alerts were generated by eDEWS system in week 51, 2013; Of these, 56 alerts were verified as true for further investigations with appropriate response.
- Altogether 21 alerts Measles, 8 Petrussis, 6 eac for AVH and Acute Flaccid Paralysis, 4 each for C.Leishmaniasis and Meningitis, 3 Dengue fever, 2 NNT, and 1 each for Bloody Diarrhea 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 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 51, 2013



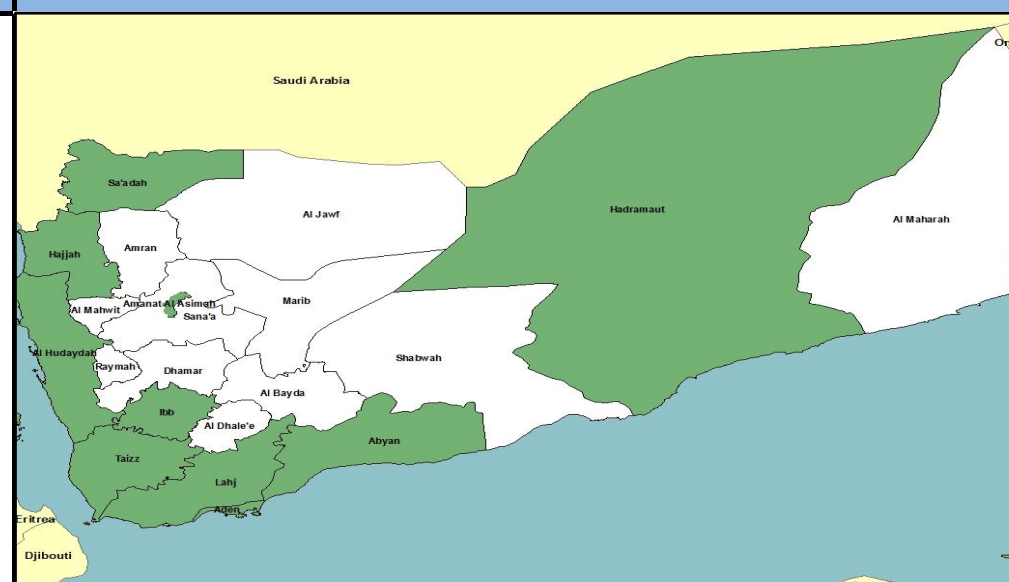
Distribution of Reporting Rates by Governorates (Epi-week 51, 2013)



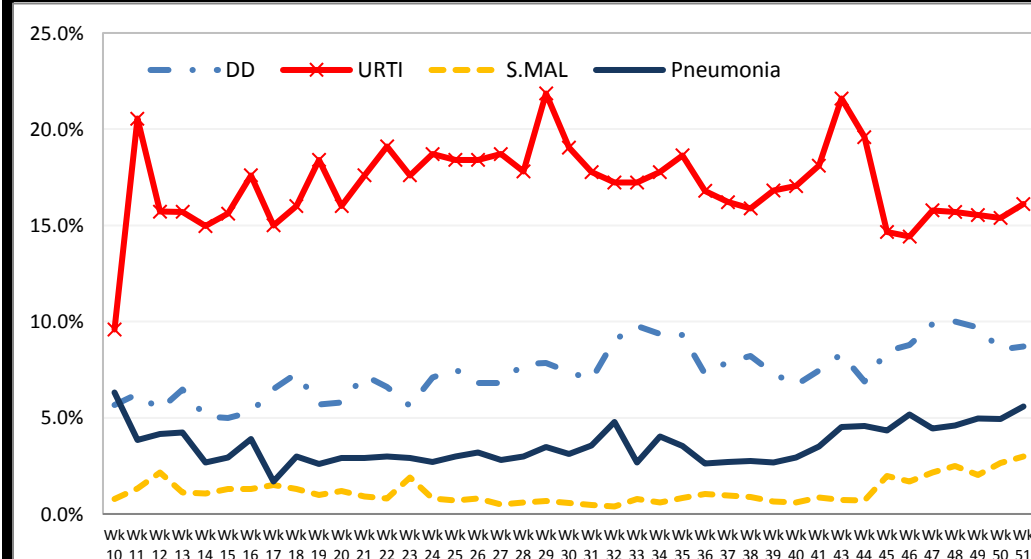
Leading Priority Diseases - 10 Governorates (Epi-week 51, 2013)

- URTI (16.1%), suspected malaria (3%), OAD (8.2%) and Pneumonia (5.6%) remain the leading causes of morbidity representing a total of 32.9%.
- 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 8.7% and Pneumonia 5.6% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 4.9% and Pneumonia 3.2% of total morbidity in the <5 years age group.

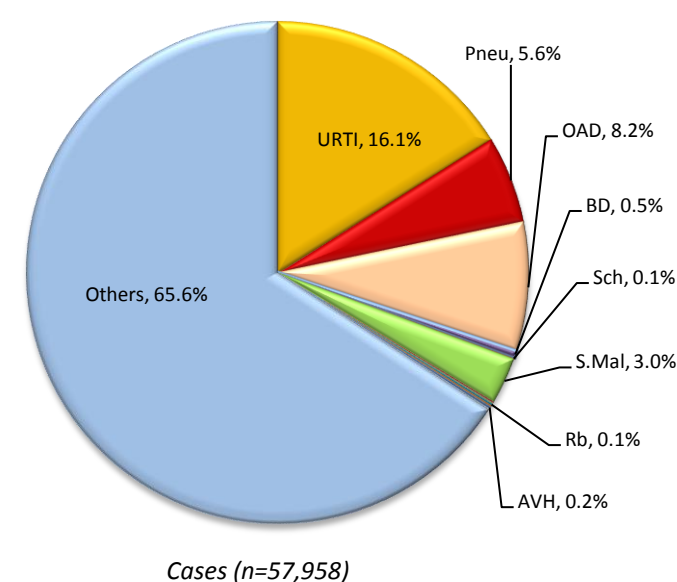
124 districts from 10 Governorates reported to eDEWS in week 51, 2013



Trends for Leading Priority Diseases in 10 Governorates - Epiweeks 10 to 51, 2013

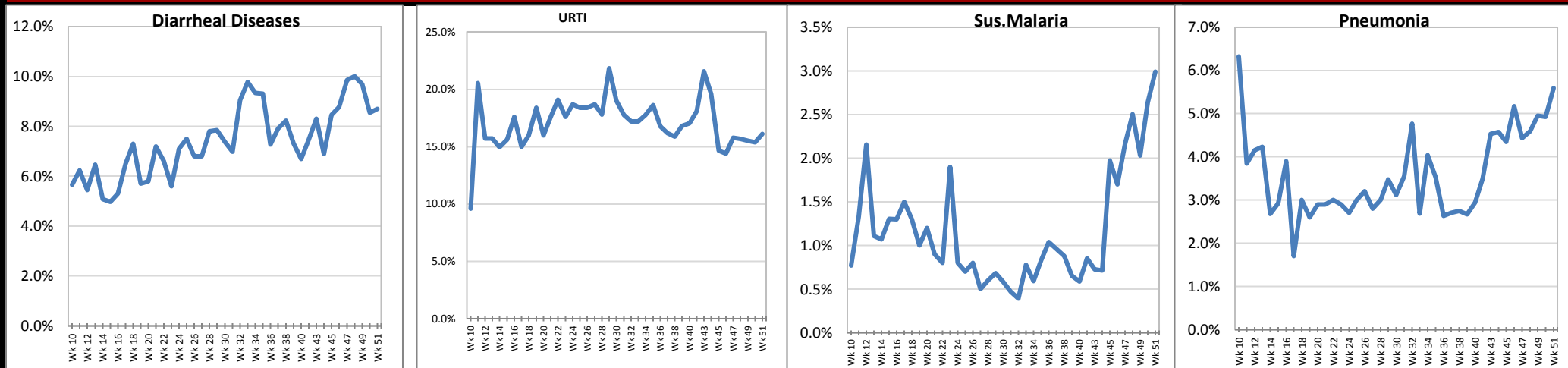


Proportional Morbidity for Leading Priority Diseases - Epiweek 51, 2013

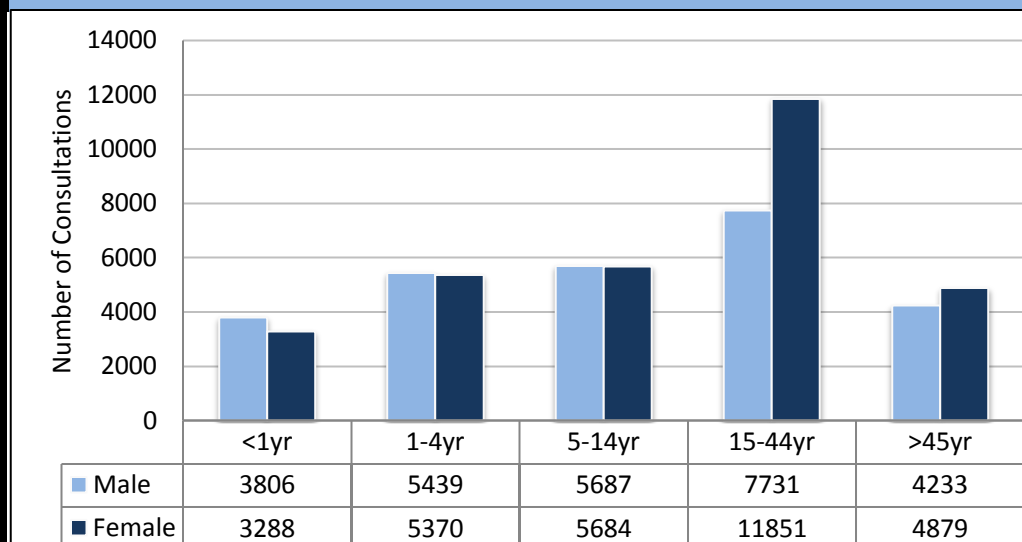


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 51, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 51, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 51, 2013 (1st March 2013 to 19th Dec. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	162562	16.7%
Diarrheal Diseases	77259	7.9%
Suspected Malaria	14517	1.5%
Pneumonia	37834	3.9%
Others	682268	70.0%
Total (All consultations)	974440	100%

Leading Diseases by Governorate, Epiweek 51

- URTI was highest in Governorate Abyan (26.8%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (16.2%) this week.

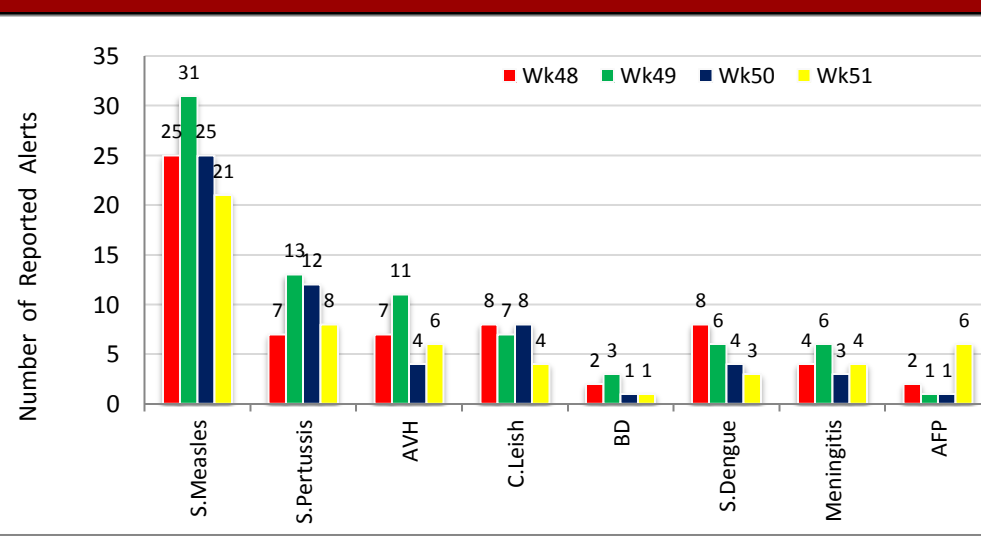
Distribution of consultations of leading diseases by Governorates, Epiweek 51

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URTI	572	1721	908	952	802	821	541	380	1235	1401	9333
Pneumonia	139	265	377	232	96	721	649	223	373	164	3239
OAD	232	656	211	463	252	542	386	329	866	830	4767
BD	5	3	2	20	4	123	57	5	13	44	276
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	0	0	0	7	0	5	0	5	10	13	40
Malaria	13	35	16	81	0	75	752	646	29	86	1733
Meningitis	0	6	0	26	0	0	6	0	12	1	51
Dengue Fever	0	1	1	7	1	0	21	1	1	0	33
Viral Hemorrhagic Fever	0	0	0	2	0	0	0	0	0	0	2
Rabies	1	0	4	62	0	1	6	0	0	0	74
Measles	1	7	0	2	5	5	3	0	9	21	53
Acute Viral Hepatitis (A & E)	6	8	1	39	3	18	2	0	14	0	91
Neonatal Tetanus	0	1	0	1	0	0	1	0	0	0	3
Acute Flaccid Paralysis	1	2	1	0	0	1	0	2	0	0	7
Cutaneous Leishmaniasis	0	0	0	0	0	1	0	0	6	4	11
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	3	4	0	4	5	0	0	1	6	4	27
OtherUn	0	1	2	0	0	0	27	0	149	0	179
Other Consultations	2097	3852	1872	4199	2342	6171	7370	1580	5726	2830	38039
Total Consultations	3070	6562	3395	6097	3510	8484	9821	3172	8449	5398	57958

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 51, 2013		System Gen. Alerts (week 51)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	264	6	8	1	8	5
Measles	623	0	21	0	21	3
AFP	61	0	6	0	6	0
Schistosomiasis	23	0	0	0	0	1
Bloody Diarrhie	24	0	1	0	1	22
AVH	160	2	6	0	6	1
Denque fever	105	0	3	0	3	0
Meningitis	78	0	4	0	4	3
CL	96	1	4	0	4	2
NNT	28	0	2	0	2	1
OAD	10	0	0	0	0	1
VHF	4	0	0	0	0	0
Pneumonia	21	0	1	0	1	1
Total	1497	9	56	1	56	40

Number of Alerts Received and Responded (Epiweeks 48 and 51, 2013)



Lahj Governorate

24 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3070 patients consultations in week 51, 2013. Total 3 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 1 Alert each for Measles, Pertussis and Acute Flaccid Paralysis were reported and responded.

Aden Governorate

23 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6562 patients consultations in week 51, 2013. Total 6 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 3 alerts Measles, and 1 each for Pertussis, Acute Flaccid Paralysis and Meningitis were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 3395 patients consultations in week 51, 2013. Total 1 alert were reported and appropriate measures were taken in week 51, 2013. Altogether one alert Acute Flaccid Paralysis were reported and responded.

Taiz Governorate

22 health facilities from 8 districts in Taiz governorate reported to eDEWS with a total of 6097 patients consultations in week 51, 2013. Total 9 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 3 alerts AVH, 2 Measles and 1 each for Dengue Fever, 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 3510 patients consultations in week 51, 2013. Total 5 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 3 alerts Pertussis, and 1 each for Measles and Bloody Diarrhea were reported and responded.

Ibb Governorate

24 health facilities from 14 districts in Ibb governorate reported to eDEWS with a total of 8484 patients consultations in week 51 2013. Total 9 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 3 alerts each for AVH and Measles, and 1 each for C.Leishmaniasis, Acute Flaccid Paralysis and Meningitis were reported and responded.

Hodaidah Governorate

25 health facilities from 22 districts in Hodaidah governorate reported to eDEWS with a total of 9821 patients consultations in week 51, 2013. Total 8 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 3 alerts Measles, 2 Dengue Fever, and 1 each for Meningitis, NNT and Pneumonia were reported and responded.

Hajjah Governorate

23 health facilities from 21 districts in Hajjah governorate reported to eDEWS with a total of 3172 patients consultations in week 51, 2013. Total 3 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 2 alert Acute Flaccid Paralysis and 1 Pertussis were reported and responded.

Amana Governorate

24 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 8449 patients consultations in week 51, 2013. Total 5 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 4 alerts Measles and 1 Pertussis were reported and responded.

Sa'da Governorate

21 health facilities from 15 districts in Sa'da governorate reported to eDEWS with a total of 5398 patients consultations in week 51, 2013. Total 7 alerts were reported and appropriate measures were taken in week 51, 2013. Altogether 4 alerts Measles and 3 C.Leishmaniasis were reported and responded.

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Outbreak Investigated and Responded in Epi-week 51, 2013

Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
Pertussis	Taiz	Al Qahirah	Sweden Hospital	An immediate alert was received from Sweden hospital for 4 suspected Pertussis cases from the same village (Alkhashabah village - Almesrakh district) not vaccinated, treatment was started (Antibiotic , paramol and soolan) , field visit was conducted to the village ,active case search done , another 14 cases were found (Outbreak) ,vaccination coverage poor,Erythromycin was prescribed for the patiens. Surveillance department and immunization coordinator were notified.	4	0

Alerts Investigated and Responded in Epi-week 51, 2013

Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
AFP	Lahj	Tur albahha	Tur albahha hospital	eDEWS team contacted focal point, the case was a suspected AFP, surveillance coordinator was informed, stool samples were collected from the case and close contact and sent to central surveillance center in Sana'a.	1	0
Pertussis	Lahj	Laboas	Laboas Hospital	eDEWS team contacted focal point, cases were diagnosed clinically using case definition by doctor in clini, cases were treated as per standard protocol for Pertussis.	3	0
Measles	Lahj	Almadarbaa	Alara hospital	eDEWS team contact focal point, information shared; A field investigation was done, blood sample was collected from the case and will be sent to sana'a central lab for confirmation .	1	0
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact focal point, there were two cases which were diagnosed clinically in OPD. No investigation forms were filled. The cases were treated as per standard protocol for Pertussis.	2	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact focal point, the team was informed that 5 meningitis cases were admitted and investigated at hospital, meningitis focal point was informed. LP was done for 1 case, CSF was collected for investigation, all patients were treated by antibiotics.	5	0
Measles	Aden	Ash Shaikh Outhman, Al-Twahi and Al-Mualla	Al-Wahdah, Al-Twahi and Al-Mualla HF's.	eDEWS team contact focal point, information shared. Blood sample were collected from one case and will be sent to sana'a central Lab. For Lab. Confirmation.	7	0
AFP	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	An immediate notification was recieved from hospital of two AFP cases. <u>First case</u> was from Abyan, surveillance coordinator of Abyan was informed, investigation form and two stool samples were collected at hospital and sent to central surveillance center in sana'a. <u>The second case</u> was from Al Dhalea, two stool samples were collected and sent to central surveillance center in sana'a. Al Dhalea surveillance coordinator was informed about the case, three stool samples from close contact were collected.	2	0
AFP	Abyan	Khanfir	MCH Ja'ar	An immediate notification was received from eDEWS focal point, the case was a suspected AFP of a 3.6 years old male who complained of lower limb weakness for a week. Abyan surveillance coordinator was informed, stool samples were collected from the case and close contacts and sent today to central surveillance center in Sana'a	1	0
NNT	Taiz	Al Qahirah	Sweden Hospital	The suspected NNT case aged 6 days M child from Saber Aalmoadem, admitted on19/12/2013 , C/O fever , inability to breast feed , and convulsion(Mother wasnt vaccinated) ,Antitetanus toxoid ,Antibiotics ,Diazepam and Oxygen inhalation were given, with little improvment.	1	0
AVH	Taiz	Al Qahirah, Al-Mudhafar and Al-Shamaytian	Sweden, Al-Hikmah and Khalifah HF's.	Focal point contactedd , information shared , 11 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was discussed again.	32	0
Measles	Taiz	Al Qahirah and Salah	Sweden and Al-Safwah HF's.	eDEWS team contact focal point, information shared. Blood sample were collected from one case and will be sent to sana'a central Lab. For Lab. Confirmation.	1	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	HF was visited,23 samples were sent to the HF lab.The results were negative (No growth) . The death case was 5 months old male child from Alwazaiah , brought to hospital on 12/12/2013 C/O fever , convulsion, general weakness since 5 days , he was admitted to ICU appropriate treatment has been given, date of death 19/12/2013.	25	1
DF	Taiz	Al Mudhaffar	Althawra Hosp.	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 cases in one location was reported	4	0
Measles	Hadramut	Alridh Qosear	Alridh Hosp	eDEWS team contact focal point, surveillance coordinator of Hadramout was informed, the cases were diagnosed clinically using case definition. Blood samples were collected from four cases and will be sent to central lab in sana'a for confirmation.	5	0
BD	Hadramut	Alridh Qosear	Alridh Hosp	eDEWS team contact focal point, cases diagnosed clinically by doctors using case definition. Further investigation was done and there was no cluster of cases. Patients were treated by antibiotics.	3	0
Pertussis	Hadramut	Alridh Qosear, Gail bawazer and Al-Mukalla	Qosear, Shoher and University HF's.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	5	0
AVH	Ibb	alqafr and Al-Dhihar	Rihab, Al-Khansa and Dar Al-Shifa HF's.	focal point contact,cases investiged for HAV, positive cases from different areas	12	0
Measles	Ibb	aludayn, Dhi Al-Sufal and Adhi har	Al udayn, Al-Kaida and Al-Khansa HF's.	focal pointe and coordinator was contacted, samples collected, and patients treated	5	0
CL	Ibb	badan	Alshaheed albadani	focal point was contacted, case clinically diagnosed and proper treatment given	1	0
AFP	Ibb	Dhi sufal	Alkaida hospital	focal pointe and coordinator was contacted. Samples taken from the case and contacts.and sent to the central level	1	0
Meningitis	Ibb	Adhi har	MCH almashanah	focal point was contacted.Patient diagnosed clinically,admitted in ICU at 18\12\2013. Treatment given, but the case died on the same day	1	1
Meningitis	Hodaidah	AL Hawak	AlAksa Hosp.	eDEWS coordinator contacted meningitis focal point, cases diagnosed as meningitis and and treated appropriately.	6	0
DF	Hodaidah	AL Hawak	AlAksa and Al-Amal HF's.	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.	21	0
NNT	Hodaidah	AL Hawak	Althawrah Hosp.	eDEWS team contacted focal point. The cases confirmed to be NNT, cases death due to sever complicated ...	1	1
Measles	Hodaidah	Al Garrahi, Alluhayah and Al-Hali	Al Garrahi, Alluhayah and Al-Salkhanah HF's.	eDEWS coordinator contacted focal point, cases were suspected Measles , sample was collected from patient by district coordinator ,send to laboratory in Sanaa.	3	0
Pneumonia	Hodaidah	AL Hawak	Althawrah Hospital	eDEWS team contacted focal point. The cases confirmed to be Pneumonia and treated appropriately, one cases died due to severe complication .	69	1
AFP	hajjah	al miftah and Kuaydinah	al miftah and Kuaydinah HF's.	eDEWS team contacted focal point, and information shared.the cases were suspected AFP, diagnosed according to the standard definition. One case was 5 months old female from (almftah) and the other was 48 months old male from (Kuaydinah). Stool samples were collected and sent to central	2	0
Pertussis	hajjah	bani gais	bani gais helth center	eDEWS team contacted focal point, and information shared.The case was 4 years old. Clinically diagnosed and treated by appropriate antibiotic	1	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.Cases from different areas.	2	0
Measles	Amana	Al-sabin, Al-Thawra and Bani Al-Harith	Al-sabin, German Modern, Al-Farabi and Al-Rawda HF's.	eDEWS team contact focal point, information shared blood samples were collected and sent for lab confirmation.3 cases from Arhab were brothers not received any vaccines.The importance of vaccination was discussed with the parents.	8	0
Measles	Saada	Saada, Sahar, Majaz and Monabeh	Al-jumhory, Al-Talh, Majaz and Monabeh HF's.	eDEWS team contact focal point, information shared. Blood sample were collected from the cases, and will be sent to sana'a central Lab. For Lab. Confirmation.	12	0
CL	Saada	Sehar, Hydan and Baqim	At Talh, Hydan and Baqim HF's.	eDEWS team contacted focal point. The cases confirmed to be CL and treated appropriately.	3	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.