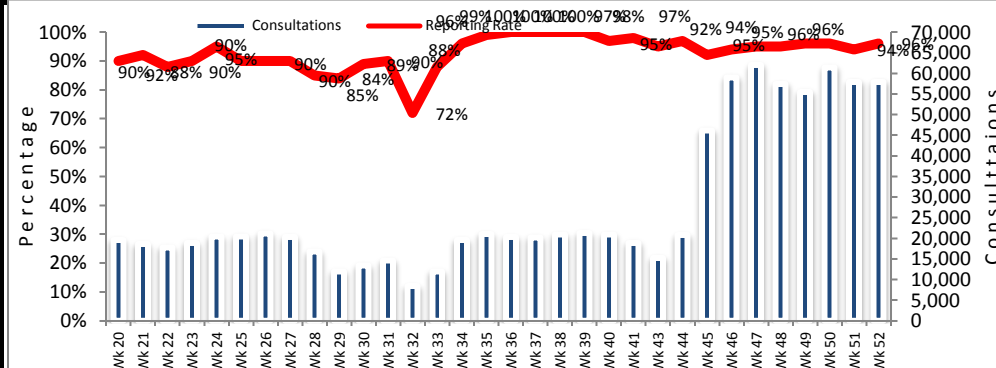


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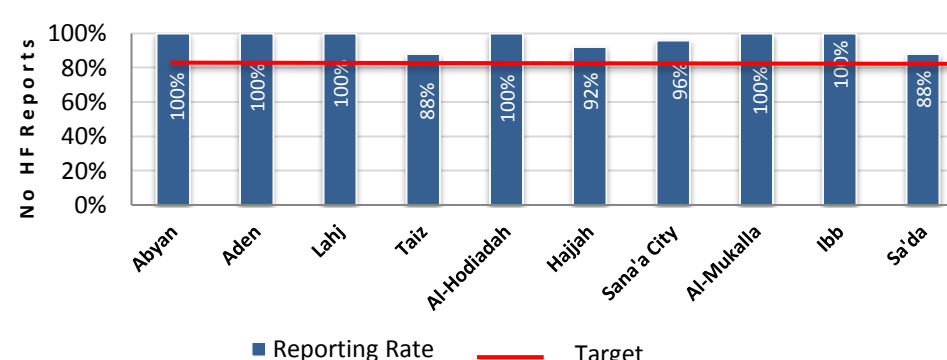
Highlights

- During week no 52, 2013; 96% (238/247) 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 104 alerts were generated by eDEWS system in week 52, 2013; Of these, 71 alerts were verified as true for further investigations with appropriate response.
- Altogether 29 alerts Measles, 15 Petrussis, 7 Acute Flaccid Paralysis, 5 C.Leishmaniasis, 4 Dengue fever, 3 each for AVH and Pneumonia, 2 each for Meningitis and NNT, and 1 OAD 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 52, 2013



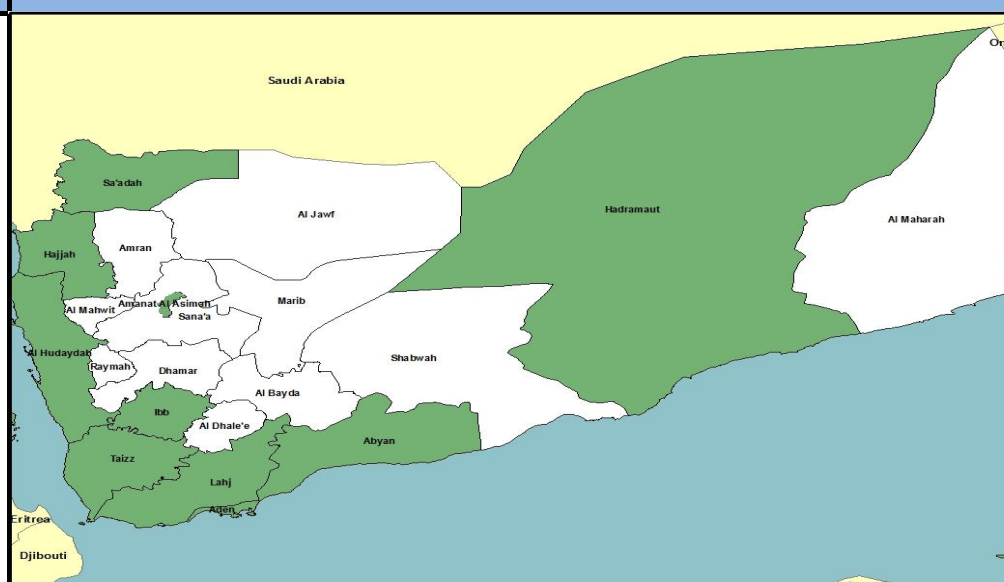
Distribution of Reporting Rates by Governorates (Epi-week 52, 2013)



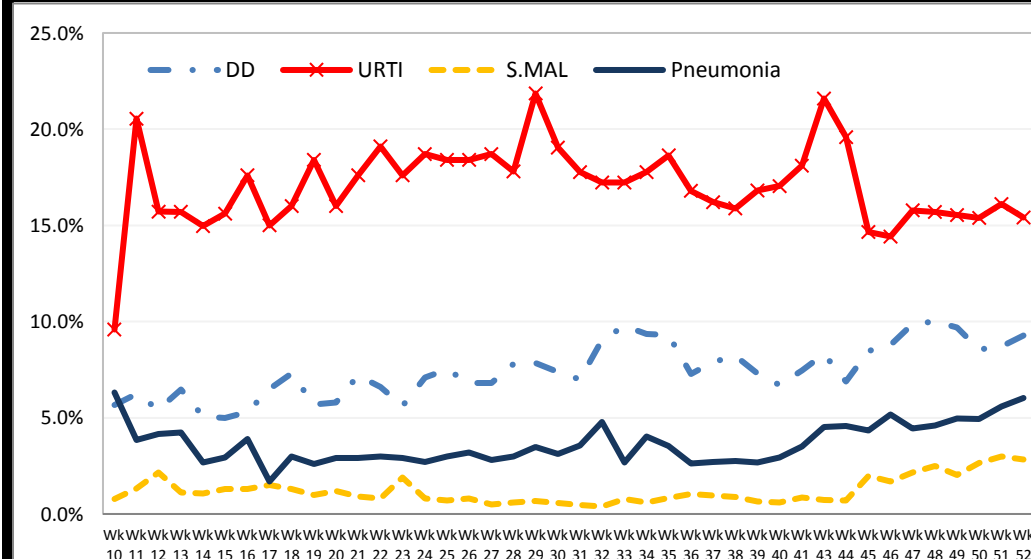
Leading Priority Diseases - 10 Governorates (Epi-week 52, 2013)

- URTI (15.4%), suspected malaria (2.8%), OAD (8.8%) and Pneumonia (6%) remain the leading causes of morbidity representing a total of 33%.
- 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 9.3% and Pneumonia 6% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5.2% and Pneumonia 3.4% of total morbidity in the <5 years age group.

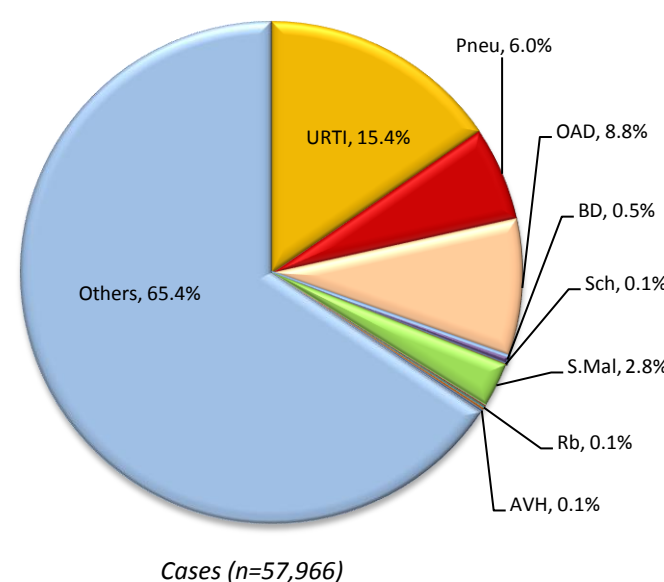
124 districts from 10 Governorates reported to eDEWS in week 52, 2013



Trends for Leading Priority Diseases in 10 Governorates - Epiweeks 10 to 52, 2013

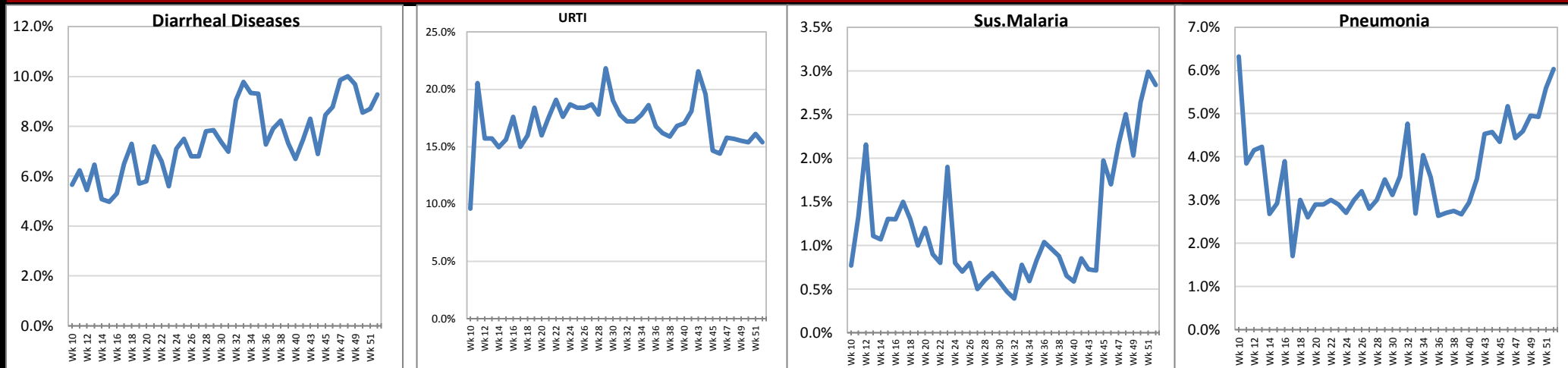


Proportional Morbidity for Leading Priority Diseases - Epiweek 52, 2013

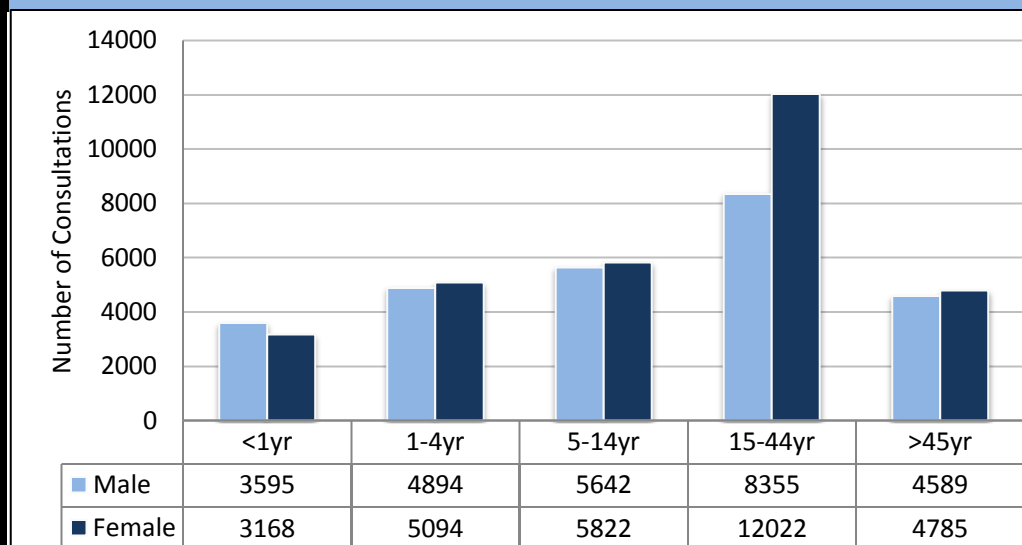


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 52, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 52, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 52, 2013 (1st March 2013 to 26th Dec. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	171492	16.6%
Diarrheal Diseases	82640	8.0%
Suspected Malaria	16162	1.6%
Pneumonia	41329	4.0%
Others	720783	69.8%
Total (All consultations)	1032406	100%

Leading Diseases by Governorate, Epiweek 52

- URTI was highest in Governorate Aden (33.3%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (19.8%) this week.

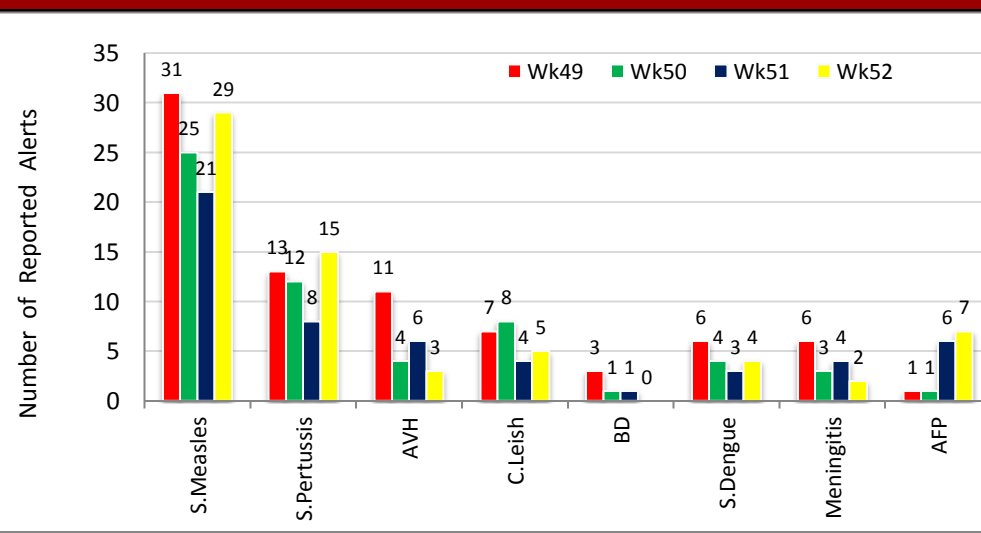
Distribution of consultations of leading diseases by Governorates, Epiweek 52

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URTI	617	1625	829	750	599	859	586	309	1300	1456	8930
Pneumonia	136	205	446	216	63	704	812	212	484	217	3495
OAD	208	514	235	410	213	705	530	311	784	1172	5082
BD	4	2	1	16	2	150	81	2	14	27	299
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	2	0	2	7	1	1	2	3	10	29	57
Malaria	20	47	19	39	0	77	757	557	21	108	1645
Meningitis	1	2	0	31	0	3	6	0	10	0	53
Dengue Fever	0	0	0	10	0	0	24	0	0	0	34
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0
Rabies	0	0	1	32	0	2	6	3	0	0	44
Measles	3	10	2	1	2	4	8	2	11	35	78
Acute Viral Hepatitis (A & E)	4	6	0	27	1	9	3	0	22	0	72
Neonatal Tetanus	0	1	0	0	0	0	2	0	0	0	3
Acute Flaccid Paralysis	1	0	1	0	0	0	0	2	4	0	8
Cutaneous Leishmaniasis	1	0	0	0	0	2	0	0	5	0	8
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	8	1	0	2	3	4	4	1	8	1	32
OtherUn	4	4	1	0	0	0	0	0	232	0	241
Other Consultations	2352	2465	1950	5718	2046	5668	7901	1701	5084	3000	37885
Total Consultations	3361	4882	3487	7259	2930	8188	10722	3103	7989	6045	57966

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 52, 2013		System Gen. Alerts (week 52)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	279	6	15	0	15	2
Measles	652	0	29	0	29	5
AFP	68	0	7	0	7	1
Schistosomiasis	23	0	0	0	0	1
Bloody Diarrhie	24	0	0	0	0	22
AVH	163	2	3	0	3	2
Denque fever	109	0	4	0	4	0
Meningitis	80	0	2	0	2	1
CL	101	1	5	0	5	1
NNT	30	0	2	0	2	0
OAD	11	0	1	0	1	0
VHF	4	0	0	0	0	0
Pneumonia	24	0	3	0	3	0
Total	1568	9	71	0	71	35

Number of Alerts Received and Responded (Epiweeks 49 and 52, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3361 patients consultations in week 52, 2013. Total 5 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 2 Alerts Measles, and 1 each for Pertussis, 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 4882 patients consultations in week 52, 2013. Total 12 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 8 alerts Measles, and 1 each for Pertussis, NNT, OAD and Pneumonia were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 3487 patients consultations in week 52, 2013. Total 2 alert were reported and appropriate measures were taken in week 52, 2013. Altogether one alert each for Acute Flaccid Paralysis and Measles were reported and responded.

Taiz Governorate

22 health facilities from 8 districts in Taiz governorate reported to eDEWS with a total of 7259 patients consultations in week 52, 2013. Total 9 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 3 alerts AVH, 2 Pertussis and 1 each for Dengue Fever, Measles, Pneumonia and Meningitis were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 2930 patients consultations in week 52, 2013. Total 4 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 3 alerts Pertussis, and 1 Measles were reported and responded.

Ibb Governorate

25 health facilities from 15 districts in Ibb governorate reported to eDEWS with a total of 8188 patients consultations in week 52, 2013. Total 6 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 2 alerts each for Measles, Pertussis and C.Leishmaniasis were reported and responded.

Hodaidah Governorate

25 health facilities from 22 districts in Hodaidah governorate reported to eDEWS with a total of 10722 patients consultations in week 52, 2013. Total 11 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 3 alerts each for Measles and Dengue Fever, 2 Pertussis, and 1 each for Meningitis, NNT and Pneumonia were reported and responded.

Hajjah Governorate

23 health facilities from 23 districts in Hajjah governorate reported to eDEWS with a total of 3103 patients consultations in week 52, 2013. Total 4 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 2 alert Acute Flaccid Paralysis and 1 each for Measles and Pertussis were reported and responded.

Amana Governorate

24 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 7989 patients consultations in week 52, 2013. Total 11 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 5 alerts Measles and 3 each for Pertussis and Acute Flaccid Paralysis were reported and responded.

Sa'da Governorate

22 health facilities from 15 districts in Sa'da governorate reported to eDEWS with a total of 6045 patients consultations in week 52, 2013. Total 7 alerts were reported and appropriate measures were taken in week 52, 2013. Altogether 5 alerts Measles and 2 C.Leishmaniasis were reported and responded.

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Alerts/ Outbreak Investigated and Responded in Epi-week 52, 2013

Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	Labaos	Labaos Hospital	eDEWS team contact focal point, surveillance coordinator was informed, cases were diagnosed clinically using case definition by doctor in clinic. No full information about cases were registered, further investigation and search of cases will be conducted. Reported cases were treated as per	8	0
CL	Lahj	Labaos	Labaos Hospital	eDEWS team contacted focal point. The case confirmed to be CL and treated appropriately. No sample was collected from skin lesion.	1	0
AFP	Lahj	Alhowtha	Ibn khldoon Hospital	eDEWS team contacted focal point, the case was a suspected AFP, survillance coordinator was informed, two stool samples were collected from the case and from close contacts and sent to central surveillance center in Sana'a	1	0
Measles	Lahj	Alara and Radfan	alara and Radfan HF's.	eDEWS team contact focal point, information shared; cases were diagnosed clinically using case definition, blood samples were collected from 2 cases and sent to central lab in sana'a for	3	0
Measles	Aden	Craiter, Khor Maksar, Al-Buriqah and Al-Mansorah	Al-Qateea, Khor Maksar, Beer Ahmed, Al-Wali, Al-Shaab and Hashed HF's.	eDEWS team contact focal point, a case of measles was diagnosed in OPD, an investigation form was filled and blood samples were taken from 6 Cases. Both form and samples were saved in HF.The cases were treated adequately.	8	0
Measles	Aden	Al Mualla	Al Mualla PCI	A visit was made to the polyclinic, focal point informed the team to a case of measles which was diagnosed by OPD doctor, the investigation form and blood sample were recived at province level.	1	0
Measles	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team visit the hospital, a case of measles were diagnosed in OPD, neither of investigation form no blood sample was taken .The case was treated adequately.	1	0
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team visit the hospital, a case was diagnosed clinically using case definition by OPD doctor and treated adequately.	1	0
NNT	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	The case reported was brought from Al Baidha'a Governorate. The case was investigated. An investigation form was done by focal point of NNT Surveillance Programme.	1	0
AFP	Abyan	Khanfir	MCH Ja'ar	eDEWS team received an alert of suspected AFP case, it was a 1.5 year old male who complained of lower limb weakness. Further search was conducted, Abyan surveillance coordinator was informed, stool samples were collected from the case and close contacts and sent to central surveillance center in Sana'a	1	0
Measles	Abyan	Khanfir	MCH Ja'ar	eDEWS team visit the health facilitiy, two cases of measles were reported. Cases were diagnosed according to cases definition, blood samples were collected from both cases and sent to central lab in	2	0
Pneumonia	Taiz	Al Qahirah	Sweden Hospital	The death case aged 3 months ,M child from Mawyah , Date of admission :25/12/2013 , C/O fever , cough , apnea ,cyanosis and diarrhea , Medications have been started(Antibiotics, Antipyretics , Oxygen inhalation) , Date of death :26/12/2013.	40	1
AVH	Taiz	Al Qahirah and Salah	Sweden, Yemen International and Al-Safwah HF's.	Focal point contactedd , information shared, 7 samples results were positive for Hepatitis A, pateints contact information were not available , the importance of detailed patients contact information was discussed again.	19	0
Measles	Taiz	Al Qahirah	Sweden Hospital	Focal point contacted, information shared, sample was collected and sent to the central lab. in Sana'a.	3	0
Pertussis	Taiz	Al Qahirah	Sweden Hospital	The eDEWS team visited the HF ,the suspected Pertusis case aged 14 months M child from Aldemnah, date of admission:23/12/2013, C/O fever, wheezing, cough and chest retraction , appropriate treatment was given with improvment , patient still in hospital , no similar cases in the same house or	1	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	HF was visited, information shared , samples were sent to the HF lab. With negative results (No	30	0
Pertussis	Taiz	Al Qahirah	Alrawda Hospital	The suspected Pertusis case aged 12 months M child from Mayiah, date of admission:25/12/2013, C/O fever , , cough followed by vomiting , ,a ppropriate treatment was given with improvment , date of discharge 29/12/2013.. .	1	0
DF	Taiz	Salh	Yemen International	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 avilable at the HF, cases were diagnosed clinically only. Medications have been started.	7	0
Measles	Hadramut	Alshaheer	Alhamy H cenrer	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Surveillance coordinator was informed, blood samples were collected from the cases and will be sent to central lab in sana'a for confirmation.	2	0
Pertussis	Hadramut	Aldesa lshargeh, Al-Mukalla and Ghail Bawazer	Aldes, MCH and Al-Garh HF's.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	3	0
Pertussis	Ibb	Alqafr and Al-Mashanah	Rihab and Red Hilal HF's.	focal point was contacted, cases clinically diagnosed and treated adequately. Patients from different area	4	0
Measles	Ibb	Adhi har	Althawra and Al-Khansa	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.	4	0
CL	Ibb	Yarim and Badan	Yahsob and Al-ShaHeed Al-Badani	eDEWS team contacted focal point. The case diagnosed as cutaneous leishmaniasis clinically and treated appropriately.	2	0
DF	Hodaidah	AL Hawak	ALAmal, Al-Aksa and Al-Rasheed 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.	20	0
NNT	Hodaidah	AL Hawak	Althawrah Hosp.	eDEWS coordinator contacted focal point. The cases confirmed to be NNT, and treated appropriately.	2	0
Pertussis	Hodaidah	Ad Durayhimi and Al-Mansuriah	Ad Durayhimi and Al-Mansuriah HF's.	eDEWS coordinator contacted focal point. The cases confirmed to be Pertusis, and treated appropriately.. .	4	0
Measles	Hodaidah	Al Garrahi, Al-Duraihmi and Al-Qanawis	Al Garrahi, Al-Duraihimi and Al-Qanawis HF's.	eDEWS coordinator contacted focal point, cases were suspected Measles, sample were collected from patients by district coordinator , and sent to laboratory in Sana'a.	8	0
Meningitis	Hodaidah	AL Hawak	AlAksa Hosp.	eDEWS coordinator contacted meningitis focal point, cases diagnosed as meningitis and treated	5	0
Pneumonia	Hodaidah	AL Hawak	Althawrah Hosp.	eDEWS coordinator contacted focal point, the cases confirmed to be Pneumonia and treated appropriately, one case death due to severe complication .	72	1
Measles	Hajjah	aflh ash sham	health center	eDEWS team contact focal point, information shared. Blood samples were collected from cases and will be sent to sana'a central Lab. for confirmation.	2	0
AFP	Hajjah	Najrah and Hajjah City	Abo hadi and Al-Jomhori HF's.	eDEWS team contacted focal point, and information shared.the cases were suspected AFP, diagnosed according to the standard definition. One case was 24 months old female from (Najrah) and the other was 69 months old female from (Hajjah City). Stool samples were collected and sent to central	2	0
Pertussis	Hajjah	Washhah	Health center	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	1	0
AFP	Amana	Assafia, Al-Wahda and Shuob	Al-Thwra, Al-Shaheed and Al-Razi HF's.	eDEWS team contacted focal point, and information shared.the cases were suspected AFP, diagnosed according to the standard definition. First case was 7 y old female from (Sana'a City), 2nd was 24 months old male and 3rd was 21 months male. Stool samples were collected and sent to central	3	0
Measles	Amana	Assafia, Al-Wahda, Old City, Al-Sabin and Al-Tahrir	Al-Thwra, Al-Shaheed, Main, Al-Wahda and Al-Olofi HF's.	eDEWS team contact focal point, information shared blood samples were collected from 7 cases and sent for lab confirmation.	9	0
Pertussis	Amana	AL-Whda, Old City and Al-Sabin	Al-shaheed, Al-Zubiri and Al-Sabin HF's.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	6	0
Measles	Saada	Saada, Sahar, Majz and Haidan	Al-jumhory, Al-Talh, Majz, Haidan and Dhahian HF's.	eDEWS team contact focal point, information shared. Blood sample were collected from 5 cases, and will be sent to sana'a central Lab. for confirmation.	27	0
CL	Saada	Hydan and Ghamr	Hydan and Ghamr HF's.	eDEWS team contact focal point, information shared, the cases transfered to Hydan hospital to collect samples and start the treatment.	2	0
Bronchopnumonia	Aden	Ash Shaikh Outhman	Al-Wahdah Hospital	<u>First case</u> A 3year old female child from dar-sa'ad admitted on 19/12/2013 with severe respiratory distress. Patient died on 20/12/2013 with a final diagnosis of lobar pneumonia with pleura effusion. <u>Second case</u> A 36days female child from Abyan, admitted on 18/12/2013 with a diagnosis of congenital heart disease with bronchopneumonia. the case died on 21/12/2013. <u>Third case</u> A 1year old child from dar-sa'ad, diagnosed previously as cerebral palsy case, admitted on 21/12/2013 with high grade fever, difficulty in breathing and attack of convulsions that last for more than 15 min. The patient developed apnea and died on the same day. <u>Fourth case</u> A 32days female child from Abyan, admitted on14/12/2013 with difficulty in breathing. The child was born with a low birth weight (intrauterine growth retardation). The child	0	5
OAD	Aden	Ash Shaikh Outhman	Al-Wahdah Hospital	A 10 months female child from Aden, admitted on 18/12/2013 with a high grade fever, diarrhea and vomiting for 2weeks before admission. Macroscopic stool examination showed a soft in consistency yellowish stool mixed with blood and mucus. The case died on 23/12/2013.	0	1

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 desease, to facilitate a rapid public health response.