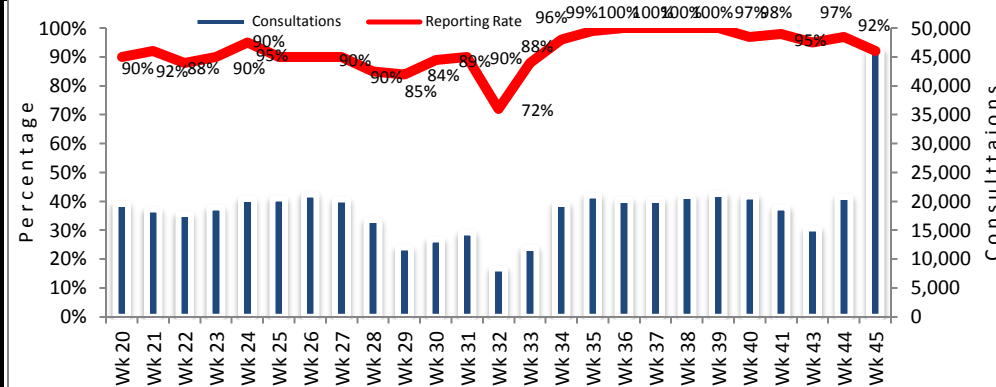


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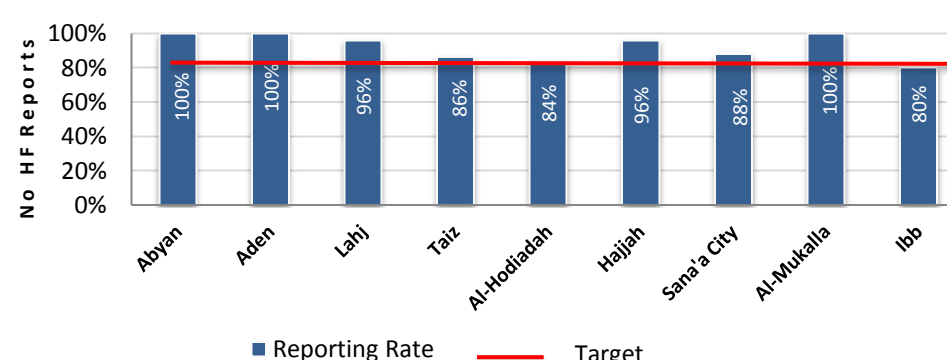
Highlights

- During week no 45, 2013; 92% (202/219) health facilities from 9 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 9 governorates was 46125 compared to 20757 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 88 alerts were generated by eDEWS system in week 45, 2013; Of these, 65 alerts were verified as true for further investigations with appropriate response.
- Altogether 13 alerts Measles, 12 AVH, 9 Petrussis, 8 Dengue fever, 7 Meningitis, 4 C.Leishmaniasis, 3 each for Acute Flaccid Paralysis and Bloody Diarrhea, 2 each for NNT and Schistosomiasis, and 1 each for VHF 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 5 Governorates (Sana'a City, Hodaidah, Hajjah, Ibb and Al-Mukalla) 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 45, 2013



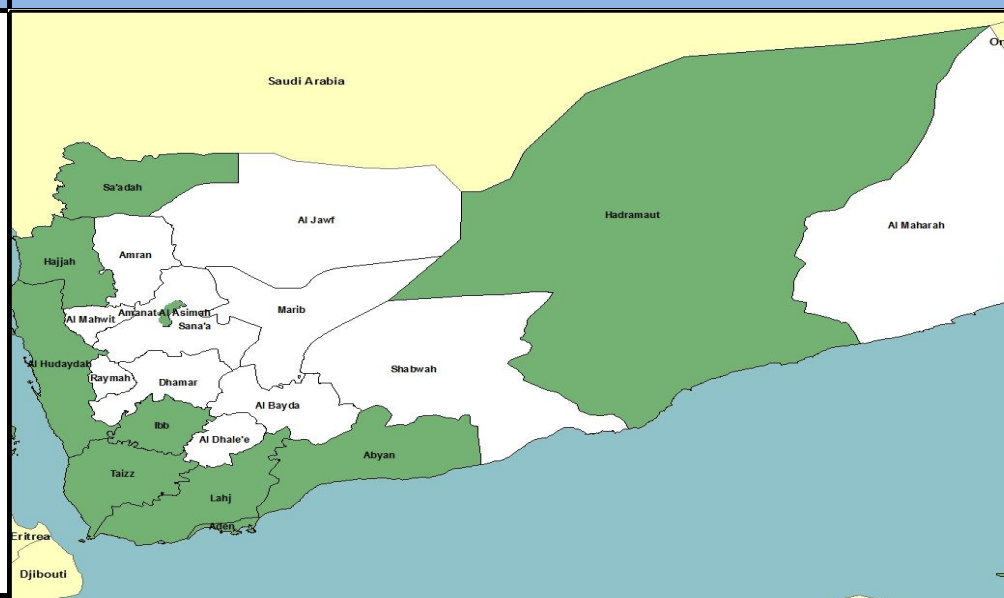
Distribution of Reporting Rates by Governorates (Epi-week 45, 2013)



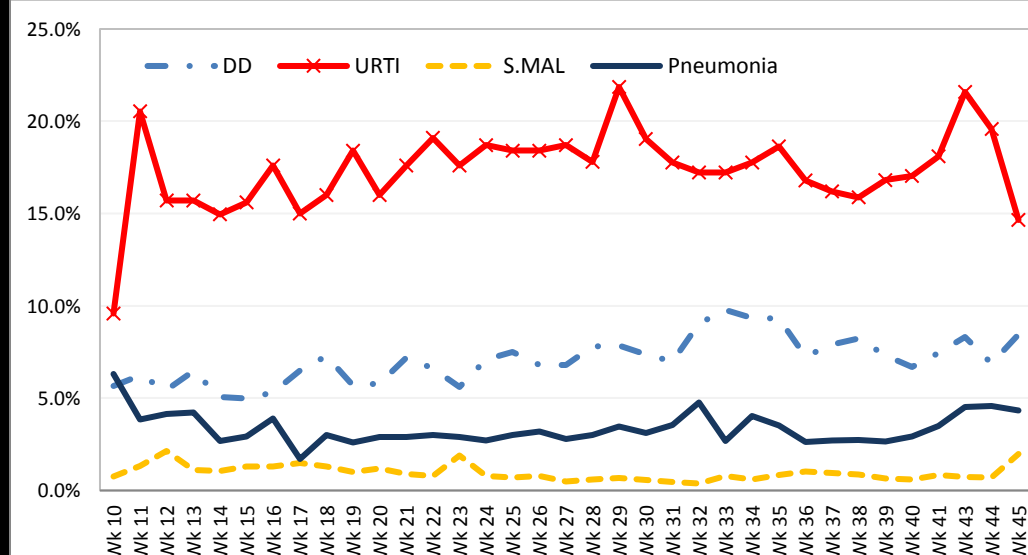
Leading Priority Diseases - 9 Governorates (Epi-week 45, 2013)

- URTI (14.7%), suspected malaria (2%), OAD (7.9%) and Pneumonia (4.3%) remain the leading causes of morbidity representing a total of 28.9%.
- 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 8.5% and Pneumonia 4.3% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5% and Pneumonia 2.6% of total morbidity in the <5 years age group.

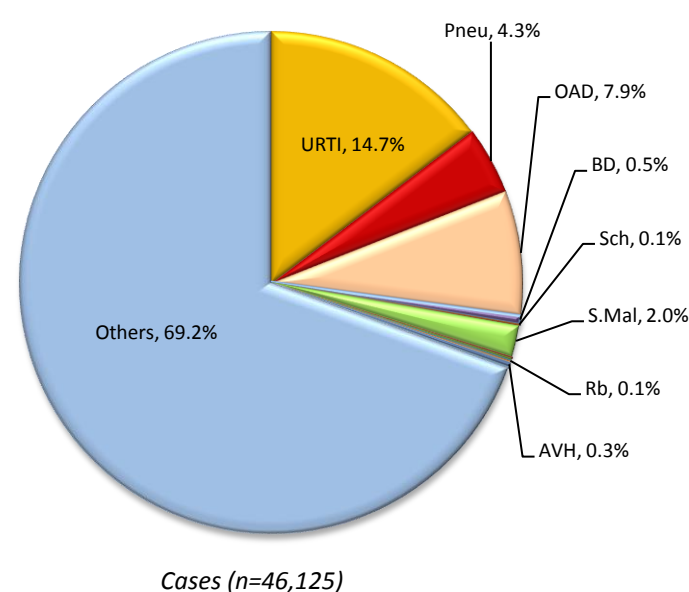
103 districts from 9 Governorates reported to eDEWS in week 45, 2013



Trends for Leading Priority Diseases in 9 Governorates - Epiweeks 10 to 45, 2013



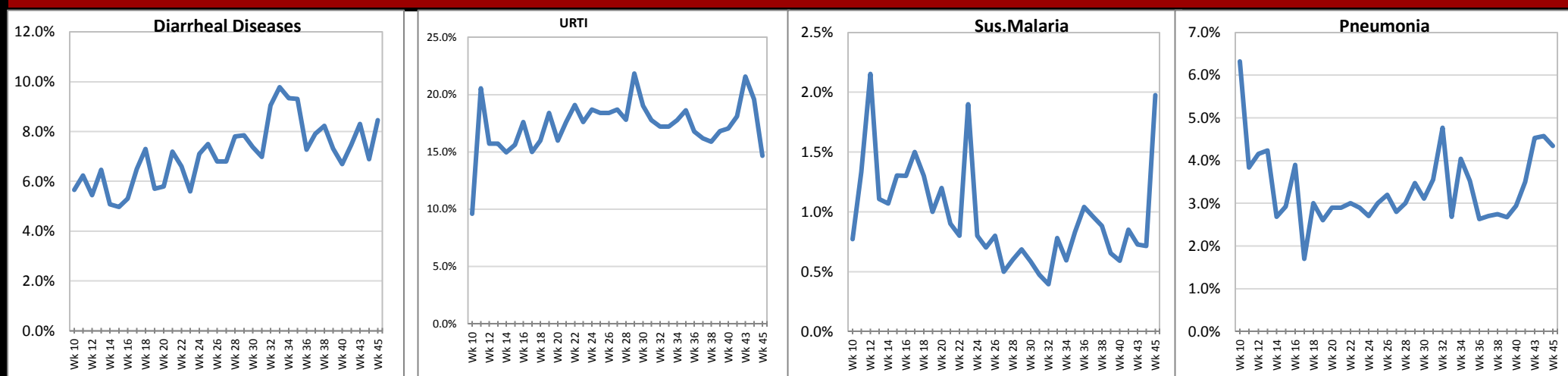
Proportional Morbidity for Leading Priority Diseases - Epiweek 45, 2013



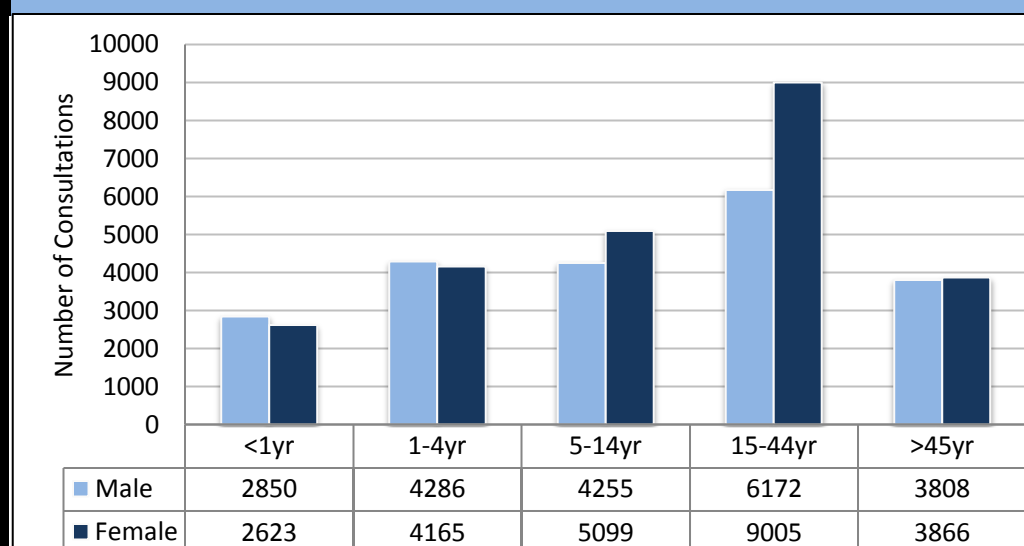
Cases (n=46,125)

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 45, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 45, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 45, 2013 (1st March 2013 to 7th Nov. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	107867	17.4%
Diarrheal Diseases	44540	7.2%
Suspected Malaria	6257	1.0%
Pneumonia	20384	3.3%
Others	442118	71.2%
Total (All consultations)	621166	100%

Leading Diseases by Governorate, Epiweek 45

- URTI was highest in Governorate Aden (29.13%) this week.
- Diarrheal Disease was highest in Governorate Amana (17.6%) this week.

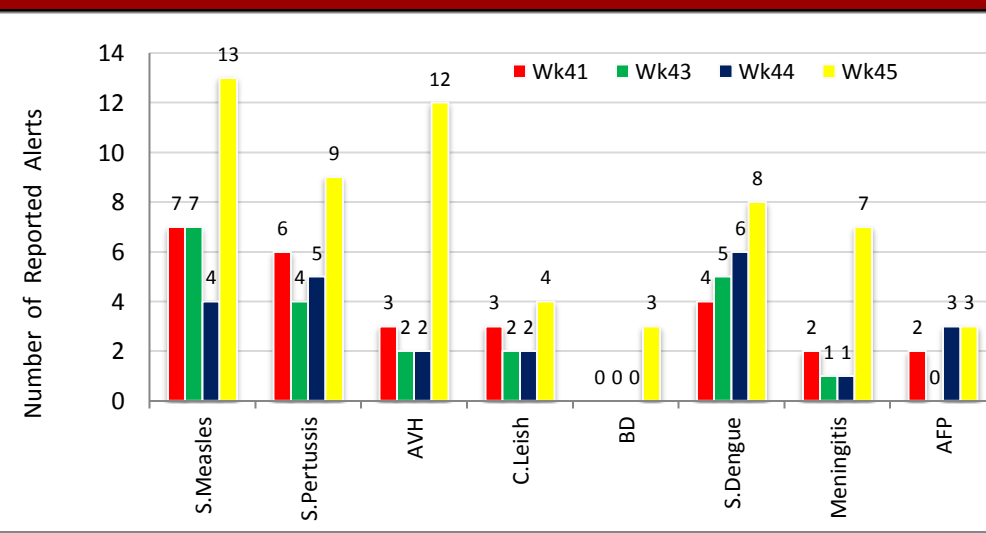
Distribution of consultations of leading diseases by Governorates, Epiweek 45

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Total
URTI	484	2039	771	788	584	342	405	241	1105	6759
Pneumonia	95	215	320	137	100	228	201	211	498	2005
OAD	286	678	140	406	133	246	365	267	1141	3662
BD	1	4	0	22	0	11	61	81	59	239
AWD	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	1	0	2	10	2	3	0	12	27	57
Malaria	26	22	15	101	2	64	291	364	26	911
Meningitis	0	4	0	21	1	4	14	0	16	60
Dengue Fever	0	0	4	45	2	1	14	2	0	68
Viral Hemorrhagic Fever	0	0	0	0	1	0	2	0	0	3
Rabies	1	0	0	29	0	3	0	3	0	36
Measles	0	5	0	0	6	3	3	0	12	29
Acute Viral Hepatitis (A & E)	7	2	1	29	1	15	3	5	61	124
Neonatal Tetanus	0	0	0	2	0	0	0	0	1	3
Acute Flaccid Paralysis	1	1	0	0	0	0	0	0	1	3
Cutaneous Leishmaniasis	0	0	0	0	0	0	8	3	15	26
Diphtheria	0	0	0	0	0	0	0	0	0	0
Pertussis	1	3	0	0	3	0	0	6	17	30
OtherUn	0	9	4	1	0	0	125	0	40	179
Other Consultations	2503	3941	2227	3675	2285	5782	6304	1424	3790	31931
Total Consultations	3406	6923	3484	5266	3120	6702	7796	2619	6809	46125

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 45, 2013		System Gen. Alerts (week 45)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	1
Pertussis	192	4	9	0	9	0
Measles	459	0	13	0	13	2
AFP	44	0	3	0	3	0
Schistosomiasis	9	0	2	0	2	0
Bloody Diarrhie	13	0	3	0	3	18
AVH	108	2	12	0	12	1
Denque fever	72	0	8	0	8	0
Meningitis	53	0	7	0	7	0
CL	51	1	4	0	4	0
NNT	18	0	2	0	2	0
OAD	5	0	0	0	0	0
VHF	4	0	1	0	1	1
Pneumonia	14	0	1	0	1	0
Total	1042	7	65	0	65	23

Number of Alerts Received and Responded (Epiweeks 41 and 45, 2013)



Lahj Governorate

24 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3406 patients consultations in week 45, 2013. Total 3 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 1 alerts each for Pertussis, Acute Flaccid Paralysis and AVH were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6923 patients consultations in week 45, 2013. Total 7 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 3 alerts Measles, 2 Pertussis, and 1 each for 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 3484 patients consultations in week 45, 2013. Total 1 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 1 alerts for Dengue Fever were reported and responded.

Taiz Governorate

19 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 5266 patients consultations in week 45, 2013. Total 11 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 5 alerts Dengue Fever, 3 AVH, and 1 each for Meningitis, Pneumonia and NNT were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 3120 patients consultations in week 45, 2013. Total 5 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 2 alerts each for Pertussis and Measles, and 1 VHF were reported and responded.

Ibb Governorate

20 health facilities from 11 districts in Ibb governorate reported to eDEWS with a total of 6702 patients consultations in week 45, 2013. Total 5 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 3 alerts AVH and 2 Measles were reported and responded.

Hodaidah Governorate

21 health facilities from 20 districts in Hodaidah governorate reported to eDEWS with a total of 7796 patients consultations in week 45, 2013. Total 8 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 2 alerts each for Measles, Dengue Fever and Meningitis, and 1 each for AVH and C.Leishmaniasis were reported and responded.

Hajjah Governorate

24 health facilities from 23 districts in Hajjah governorate reported to eDEWS with a total of 2619 patients consultations in week 45, 2013. Total 5 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 2 alerts each for Pertussis and C.Leishmaniasis, and 1 Schistosomiasis were reported and responded.

Amana Governorate

22 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 6809 patients consultations in week 45, 2013. Total 20 alerts were reported and appropriate measures were taken in week 45, 2013. Altogether 4 alerts each for Measles and AVH, 3 each for Bloody Diarrhea and Meningitis, 2 Pertussis, and 1 each for Acute Flaccid Paralysis, C.Leishmaniasis, NNT and Schistosomiasis were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 45, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
AFP	Lahj	Almadarbaa	Kharaz HC	eDEWS team contacted focal point, the case was a suspected AFP, surveillance coordinator was informed, stool sample was collected and sent to central surveillance center in Sana'a	1	0
Pertussis	Lahj	Laboas	laboas Hospital	eDEWS team contacted focal point, case was diagnosed clinically using case definition by doctor in clinic, case was treated as per standard protocol for Pertussis.	1	0
AVH	Lahj	Laboas	laboas Hospital	eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately	3	0
Measles	Aden	Al Mansura, AlMualla and Craiter	Hashid, AlMualla and AlMaidan HFs.	eDEWS team contact focal point, information shared, Blood samples were collected from 3 cases and will be sent to sana'a central Lab. For Lab. Confirmation.	4	0
Pertussis	Aden	Khur Maksar and AlShaikh Othman	Khor-Maksar and Al-Wahda HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	3	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wehda Hosp.	The cases diagnosed as suspected meningitis, but after a visit made to hospital and further investigation, it was found that the cases came from three different governorates.	3	0
AFP	Aden	Ash Shaikh Outhman	Al-Wehda Hosp.	eDEWS team visit the hospital, the case was a suspected AFP came from Yafe (Lahj governorate), surveillance coordinator was informed, one stool sample was collected from the patient (the second sample will be collected), and samples were collected from three contacts. The samples will be sent to central surveillance center in Sana'a.	1	0
DF	Abyan	Lawdar	Lawdar Hospital	eDEWS team contact focal point, information shared, cases diagnosed as dengue fever, blood samples were collected from cases and sent to Aden public health lab for confirmation. Governmental office and related ministry departments were informed to coordinate for action taken and for the necessary preventive measures.	4	0
DF	Taiz	Al Mudhaffar, Salah and AlQahirah	Alhikma, Labs National Center, Yemen International, AlRawdha and Al-Braihi HFs.	Focal point contactedd , information shared , 3 sample result were positive for DF (Elisa test) from Taiz national Lab. The remaining cases were diagnosed clincially only(Elisa test wasn't done) , importance of refrerance pateints to Taiz national lab. for Confirmation of cases was discussed , importance of reporting patients contact information was discussed too.	40	0
AVH	Taiz	Al Mudhaffar, Salah and AlQahirah	Alhikma, Swaden and Labs National Center 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.	20	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	Focal point contacted, information shared , samples were sent to the HF lab. With negative results (No growth) .	20	0
NNT	Taiz	Al Qahirah	Sweden Hospital	The suspected NNT case aged 8 days M child amittedt to hospital on 5/11/2013 (from Shameer) . C/O fever convulsion and inability to breast feed(suckling) , , anti-tetanus toxoid doses and antibiotics have been started ,he was discharged in the same day upon familys request. The NNT death case aged 7days M child from Sharab , date of admission :5/11/2013 , , he complained of fever , inability to breast feed , convulsion ,Antitetanus toxoid ,Antibiotics and Antipyretic drugs were given , date of death 8/11/2013.	2	1
Pneumonia	Taiz	Al Qahirah	Sweden Hospital	,The death case(Chest infection) aged 5 months male child brought to hospital on 2/11/2013 from Almafer C/O fever, sever cough , difficulty in breathing and cyanosis , medications were started(Antibiotic , Oxygen ,Bronchodilators) ,he died in the same day ,	36	1
AVH	amana	assafiya, Al-Tahrir and Al-Sabain	al-thwra, Al-Kuwait and AlSabain HFs .	eDEWS team contact focal point, cases were diagnosed clinically no blood samples were collected.the caeses from different areas	36	0
Measles	amana	assafiya, Maeen, AlSabain and AlWahda	Al-thwra, Gaza, AlSabain and Cludia Fain Hfs.	eDEWS team contact focal point, information shared. Blood sample was collected from the one case, and will be sent to sana'a central Lab. For Lab. Confirmation.	12	0
Meningitis	amana	assafiya, Al-Tahrir and Al-Sabain	al-thwra, Al-Kuwait and AlSabain HFs .	eDEWS team contact meningitis focal point, cases diagnosed as meningitis and treatment was given. Cases from different districts.	15	0
BD	amana	assafiya, Old Sana'a and AlSabain	Al-thwra, Maen and AlSabain HFs.	eDEWS team contact focal point all cases waredignosid and treated as outpatient and from different areas	50	0
CL	amana	assafiya	al-thwra Hosp.	eDEWS team contact focal poincases dignosed by dermatologist inoutpatient clinic Cases from different areas	15	0
sch	amana	assafiya	Al-thwra Hosp.	eDEWS team contact focal poinall cases ware dignosid clinicly and by lab test and treated as outpatient thy from different areas	18	0
Pertussis	amana	tahrir and AlSabain	Al-kuwait and AlKuwait HFs.	cases were diagnosed clinically using case definition aadmissionn for one case Antibiotic treatment was given patients improved	6	0
NNT	amana	Old city	Zubairi HC	male neonat white story of home deilviry caem to ER reffered immedatly to areference hospital	1	0
AFP	amana	Al-sabin	Al-sabin Hosp.	eDEWS team contact focal point stool sampls were collected from the case and ther contact by surveillance team and sent for lab confirmation.	1	0
CL	hajjah	kohlal al sharf and Hajjah City	Kohlal and AlJomhori HFs.	eDEWS team contact focal point, information shared, the case diagnosed as cutaneous leishmaniasis by a doctor, no samples were collected from the skin lesion.	3	0
Pertussis	hajjah	hajjah city and Washhah	Al Jomhori and WashHah HFs.	eDEWS team contact focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	6	0
sch	hajjah	hajjah city	Al Jomhori Hospital	eDEWS team contact focal poin.There were two cases of godam hajjah and three unknown cases have been clarifid address the importance of complete data cases	5	0
Measles	Hadramut	Alridh Qosear and AlDes AlShargea	Alridh and AlDes HFs.	eDEWS team contact focal point, information shared, the cases were diagnosed clinically according to case definition as measles, further investigation for cases. Proper treatment was given.	4	0
Pertussis	Hadramut	Mukalla City and Ghail Bawaser	family Medecin Baabood and AlGarh	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	3	0
VHF	Hadramut	MUKALLA CITY	Iben sena Hosp.	eDEWS team contact focal point, information shared, the case diagnosed as VHF, blood sample was collected for investigation and the case was treated appropriately, the result of the blood sample was negative.	1	0
CL	Hodaidah	Hais	Hais Hospital	eDEWS team contacted focal point. The cases confirmed to be CL and treated appropriately. . No samples collected .	8	0
AVH	Hodaidah	Jabal Ras	22 May Hosp.	eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately	3	0
Meningitis	Hodaidah	Bajel and Zabid	Bajel and Zabid HFs.	eDEWS team contact meningitis focal point, cases diagnosed as meningitis and treatment was given.	14	0
DF	Hodaidah	Bajel and Al Hali	Bajel and AlSalakhanah HFs.	Focal point contactedd , information shared , patients were diagnosed clincially only(Elisa test wasn't done) , importance of refrerance pateints to Hodaidah national lab. for confirmation was diacussed , importance of reporting patients contact information was discussed too.	12	0
Measles	Hodaidah	AlMansoriah and Jabal Ras	AlMansoriah and 22 May HFs.	eDEWS team contact focal point, information shared. Blood samples were collected from the cases, and will be sent to sana'a central Lab. For Lab. Confirmation.	3	0
Measles	Ibb	Al Udayn	Al Udayn Hosp.	Focal point contacted, information shared, sample was collected , but it wasn't sent yet to the centrla lab. In Sanaa.	1	0
AVH	Ibb	Almashanna and AlDihar	Naser, Dar AlShifa and AlAmin HFs.	Focal point contacted, information shared, sample were collected , results are awaited. No information about the cases , the importance of detailed information was discussed	11	0
Measles	Ibb	Aldihar	Dar AlShifa Hosp.	Focal point contacted, No information about the cases , the importance of detailed information was discussed	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.