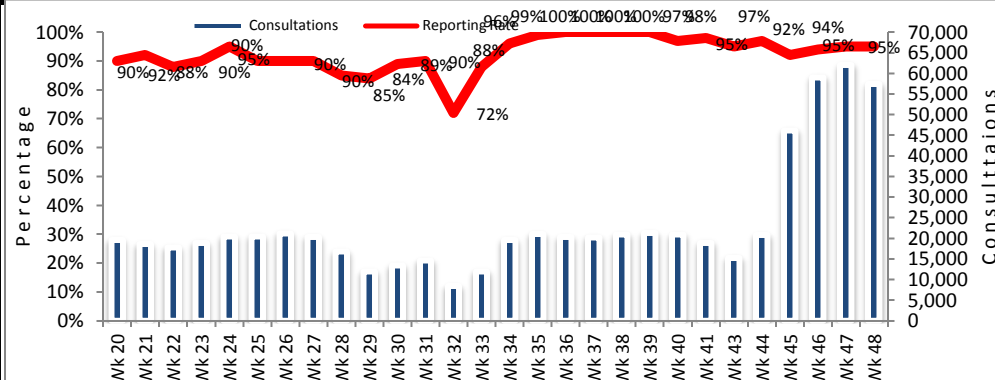


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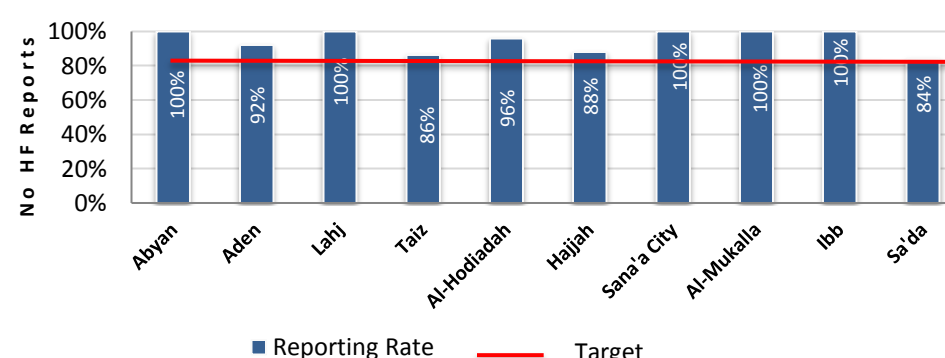
Highlights

- During week no 48, 2013; 95% (231/244) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 57408 compared to 61976 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 111 alerts were generated by eDEWS system in week 48, 2013; Of these, 72 alerts were verified as true for further investigations with appropriate response.
- Altogether 25 alerts Measles, 8 each for Dengue fever and C.Leishmaniasis, and 7 each for Petrussis and AVH, 4 each for Meningitis and Schistosomiasis, and 2 each for Acute Flaccid Paralysis, Bloody Diarrhea, OAD and NNT, and 1 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 48, 2013



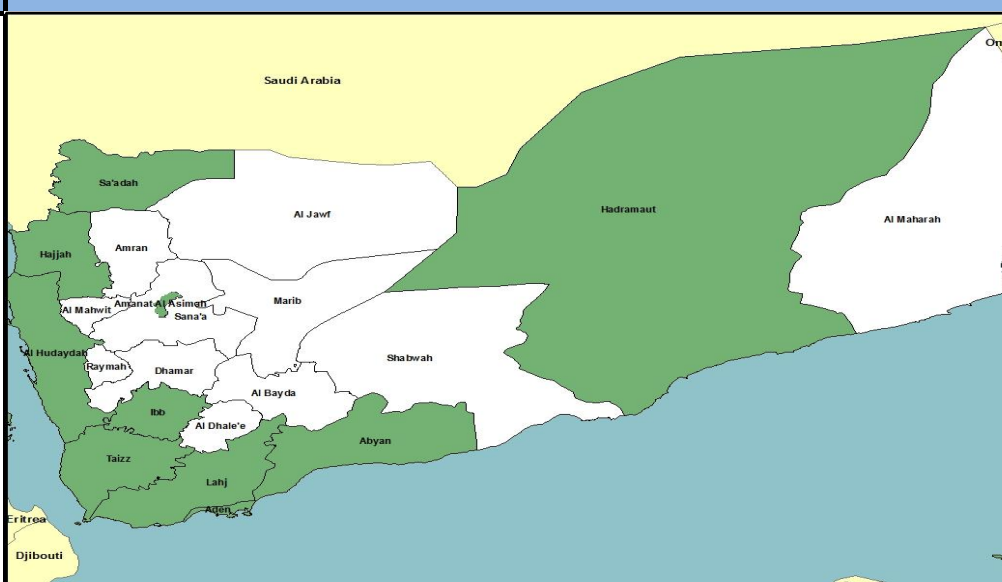
Distribution of Reporting Rates by Governorates (Epi-week 48, 2013)



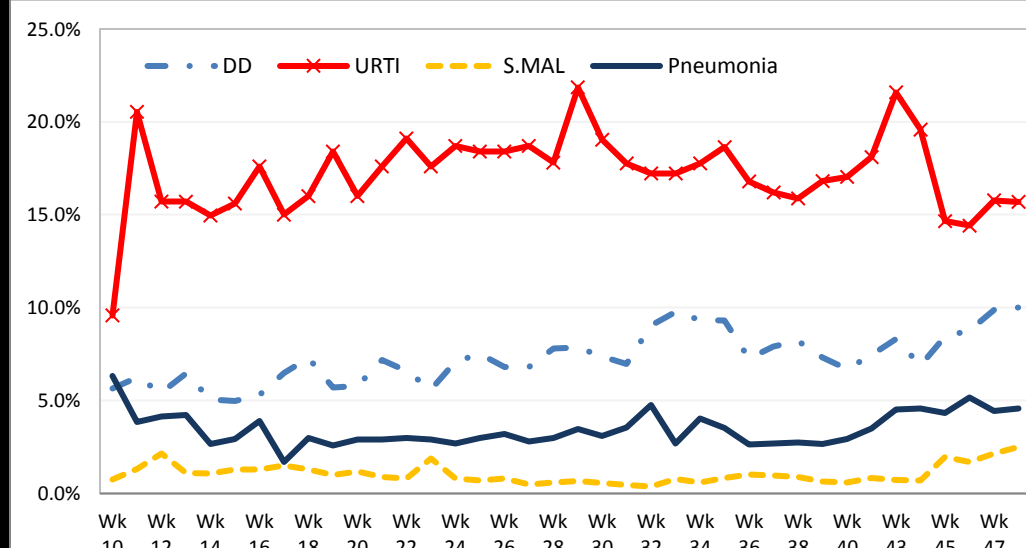
Leading Priority Diseases - 10 Governorates (Epi-week 48, 2013)

- URTI (15.7%), suspected malaria (2.5%), OAD (9.3%) and Pneumonia (4.6%) remain the leading causes of morbidity representing a total of 32.1%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.7% of this morbidity.
- All diarrheal disease comprised 10% and Pneumonia 4.6% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5.73% and Pneumonia 2.45% of total morbidity in the <5 years age group.

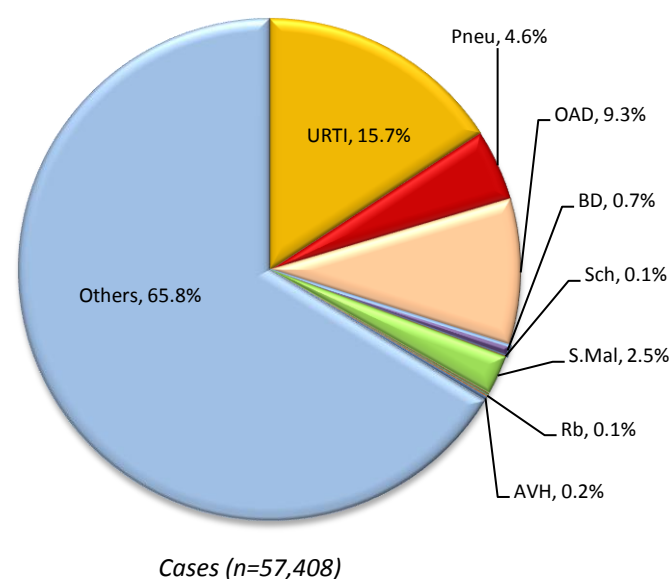
124 districts from 10 Governorates reported to eDEWS in week 48, 2013



Trends for Leading Priority Diseases in 10 Governorates - Epiweeks 10 to 48, 2013

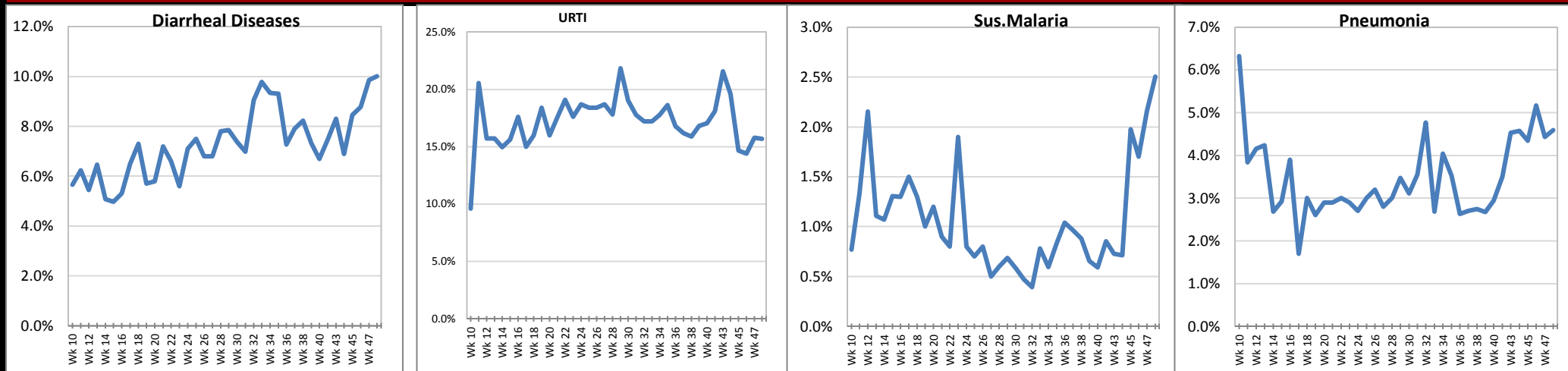


Proportional Morbidity for Leading Priority Diseases - Epiweek 48, 2013

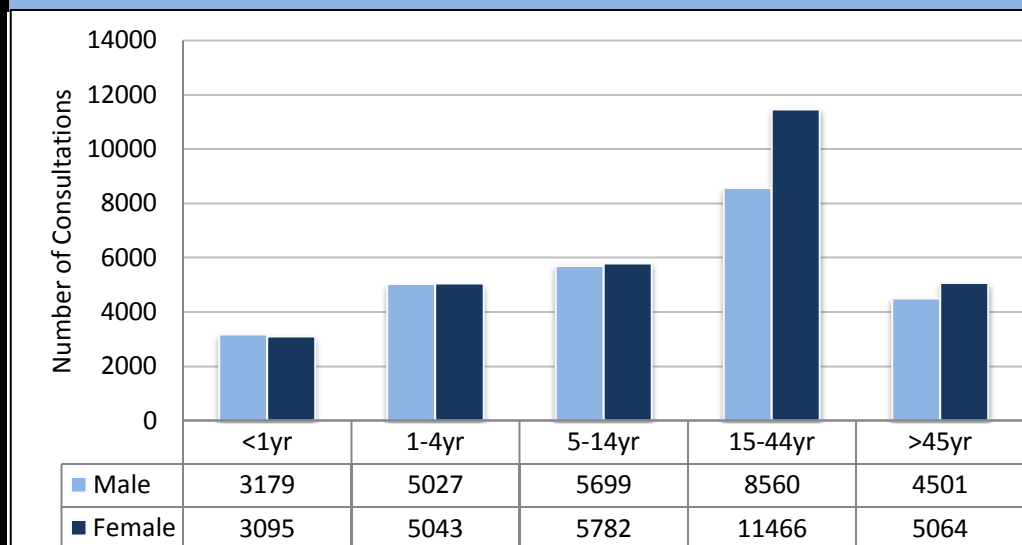


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 48, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 48, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 48, 2013 (1st March 2013 to 28th Nov. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	135163	16.9%
Diarrheal Diseases	61582	7.7%
Suspected Malaria	10037	1.3%
Pneumonia	28819	3.6%
Others	563980	70.5%
Total (All consultations)	799581	100%

Leading Diseases by Governorate, Epiweek 48

- URTI was highest in Governorate Aden (28.69%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (17.87%) this week.

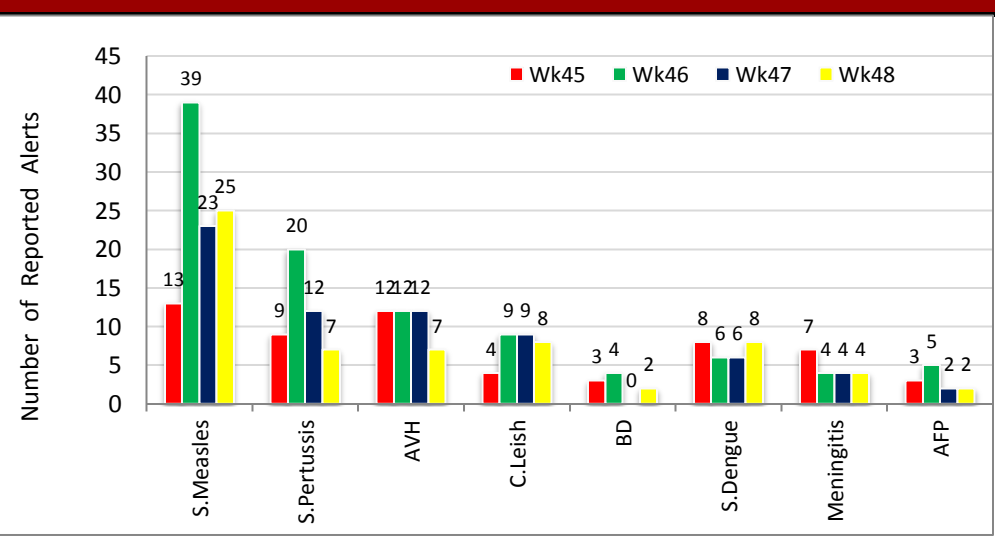
Distribution of consultations of leading diseases by Governorates, Epiweek 48

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URTI	521	1951	807	695	731	846	523	251	1325	1359	9009
Pneumonia	103	217	351	106	88	675	449	192	361	94	2636
OAD	232	794	229	451	226	601	344	387	1107	993	5364
BD	0	9	0	53	7	148	119	6	22	21	385
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	0	0	0	11	2	17	2	6	7	24	69
Malaria	29	40	14	36	5	136	513	528	19	117	1437
Meningitis	0	3	0	0	2	4	4	0	15	2	30
Dengue Fever	0	0	0	40	0	0	12	1	0	0	53
Viral Hemorrhagic Fever	0	0	0	0	0	0	1	0	0	0	1
Rabies	1	0	3	10	0	10	3	3	0	0	30
Measles	1	5	0	0	2	8	0	0	9	20	45
Acute Viral Hepatitis (A & E)	5	9	0	31	4	14	12	2	37	7	121
Neonatal Tetanus	0	0	0	0	0	0	2	0	0	0	2
Acute Flaccid Paralysis	0	0	0	0	0	1	1	1	1	0	4
Cutaneous Leishmaniasis	1	0	0	0	0	2	3	1	9	6	22
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	1	3	0	0	4	0	0	0	11	7	26
OtherUn	0	6	0	0	0	0	388	0	1	0	395
Other Consultations	2644	3763	1853	5176	2274	6370	7143	1277	4256	3023	37779
Total Consultations	3538	6800	3257	6609	3345	8832	9519	2655	7180	5673	57408

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 48, 2013		System Gen. Alerts (week 48)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	231	5	7	1	7	2
Measles	546	0	25	0	25	1
AFP	53	0	2	0	2	2
Schistosomiasis	21	0	4	0	4	1
Bloody Diarrhie	19	0	2	0	2	23
AVH	139	2	7	0	7	4
Denque fever	92	0	8	0	8	0
Meningitis	65	0	4	0	4	2
CL	77	1	8	0	8	2
NNT	24	0	2	0	2	0
OAD	10	0	2	0	2	0
VHF	4	0	0	0	0	2
Pneumonia	20	0	1	0	1	0
Total	1301	8	72	1	72	39

Number of Alerts Received and Responded (Epiweeks 45 and 48, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3538 patients consultations in week 48, 2013. Total 3 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 1 Alerts each for C. Leishmaniasis, Measles and Pertussis were reported and responded.

Aden Governorate

23 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6800 patients consultations in week 48, 2013. Total 9 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 4 alerts Measles, 1 each for Pertussis, AVH, Pneumonia, OAD and Meningitis were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 3257 patients consultations in week 48, 2013. No alerts were reported and appropriate measures were taken in week 48, 2013.

Taiz Governorate

19 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 6609 patients consultations in week 48, 2013. Total 8 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 6 alerts Dengue Fever, and 1 each for AVH and Schistosomiasis were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 3345 patients consultations in week 48, 2013. Total 5 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 2 alerts each for Pertussis and Measles, and 1 Bloody Diarrhea were reported and responded.

Ibb Governorate

25 health facilities from 13 districts in Ibb governorate reported to eDEWS with a total of 8832 patients consultations in week 48, 2013. Total 10 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 3 Measles, 2 AVH, and 1 each for Bloody Diarrhea and C.Leishmaniasis were reported and responded.

Hodaidah Governorate

24 health facilities from 22 districts in Hodaidah governorate reported to eDEWS with a total of 9519 patients consultations in week 48, 2013. Total 9 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 2 alerts each for AVH, Dengue Fever, NNT, and 1 each for , Meningitis, C.Leishmaniasis and Acute Flaccid Paralysis were reported and responded.

Hajjah Governorate

22 health facilities from 23 districts in Hajjah governorate reported to eDEWS with a total of 2655 patients consultations in week 48, 2013. Total 1 alert were reported and appropriate measures were taken in week 48, 2013. Altogether 1 alert C.Leishmaniasis were reported and responded.

Amana Governorate

25 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 7180 patients consultations in week 48, 2013. Total 9 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 6 alerts Measles, 1 each for Pertussis, Acute Flaccid Paralysis and Meningitis were reported and responded.

Sa'da Governorate

21 health facilities from 14 districts in Sa'da governorate reported to eDEWS with a total of 5673 patients consultations in week 48, 2013. Total 18 alerts were reported and appropriate measures were taken in week 48, 2013. Altogether 9 alerts Measles, 4 C.Leishmaniasis and 2 each for Pertussis and Schistosomiasis, and 1 AVH were reported and responded.

Outbreak Investigated and Responded in Epi-week 48, 2013						
Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	Radfan	Radfan Hospital	A field investigation was conducted by eDEWS team on week 46 to Al-augiba village in Radfan district as a response of the alert received from Radfan Hospital of 6 cases of pertussis from the same village. An outbreak of pertussis was detected, 19 more cases (probable cases and Epi-link cases) were found as a result of the active search. Therapeutic oral erythromycin was distributed to active cases and prophylaxes erythromycin to close	25	0
Alerts Investigated and Responded in Epi-week 48, 2013						
Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Almadarbh	alarah Hospital	Measles focal point contacted , information shared , sample was collected from the case but wasnt sent yet to the central Lab. In Sanaa.	1	0
Pertussis	Lahj	Tuban	Alanad HU	eDEWS team contacted focal point, case (18 months F child , vaccinated) ,was diagnosed clinically using case definition by doctor in clinic, case was treated as per standard protocol for Pertussis.filed	1	0
CL	Lahj	Turalbahh	ALMAKTEAH DIS	eDEWS team contacted focal point. The case confirmed to be CL and treated appropriately. no sample was collected .	1	0
Measles	Aden	Al Mulla, Al-Burieqa and Al-Shaikh Othman	Al Mulla, Al-Heswa, Al-Wahdah and Al-Shaikh Othman	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
Pneu	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	Information shared by eDEWS focal point revealed 1 death case that was diagnosed as Br.pneumonia with CHD.	47	1
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS focal point contacted ,we were informed that 2 cases were admitted,one was seen at the OPD. All were diagnosed clinically tow cases were from Al Burieqa ,the third of unknown	3	0
OAD	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	Information shared by eDEWS focal point revealed that 3 deaths diagnosed OAD,pts were brought late with bad condition.	183	3
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	The informations obtained from focal point indicated that 2 cases admitted and underwent the measures of Meng,surveillance programme in the hospital by filled investigation Forms LP was not conducted.The third case refused admission.	3	0
AVH	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS focal point contacted ,we were informed that cases were seen at the OPD ,diagnosed clinically ,no investigations were done	5	0
DF	Taiz	Al Qahirah, Salah and Al-Mudhafar	26 sep, Army, Al-Burihi, Al-Thawrah, Yemen International and Al-Tawon HFs.	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 threshold)	39	0
Sch	Taiz	Salh	Army Hosp.	Focal point contacted ,Samples for suspected AVH cases were sent to the lab, results are awaited	7	0
AVH	Taiz	Al Qahirah	Al-Tawon Hosp.	Focal point contacted ,Samples for suspected AVH cases were sent to the lab, results are awaited	23	0
Measles	Amana	Assafia, Al-Sabin, Azzal, Al-Wahdah, Shoaob and Al-Thawrah	Al-Thawra, Al-Sabin, Azzal, Al-Shaheed, Al-Razi and Al-Farabi HFs.	eDEWS team visit the some of health facilities and contact focal point, information shared, the cases diagnosed clinically as measles blood sample were collected from 6 cases and will be sent to sana'a central lab for confirmation.	8	0
Meningitis	Amana	Assafia	Al-Thwra Modern Hosp	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.	3	0
AFP	Amana	Assafia	Al-Thwra Modern Hosp	eDEWS team contact focal point, information shared.the case is 8y male from somalia. Stool samples has been collected from the case and the contacts and sent for laboratory confirmation.	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.	2	0
Meningitis	Hodaidah	AL Hawak	AlAksa Hosp.	eDEWS team contact meningitis focal point, cases diagnosed as meningitis and and treated appropriately .	1	0
DF	Hodaidah	AL Hawak	ALAmal and Al-Aksa HFs.	Focal point contactedd , information shared , patients were diagnosed clincially only (Elisa test wasn't done) , importance of refrerrance pateints to Hodaidah national lab. for confirmation was discussed , importance of reporting patients contact information was discussed too.	12	0
AVH	Hodaidah	AL Hawak and Bajel	ALAmal and Bajel HFs.	eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately .	6	0
NNT	Hodaidah	AL Hawak	Althawrah and Al-Aksa HFs.	eDEWS team contacted focal point. The cases confirmed to be NNT and treated appropriately. .	2	0
CL	Hodaidah	Bajel	Bajel Hospital	eDEWS team contacted focal point. The cases confirmed to be CL and treated appropriately. .	3	0
AFP	Hodaidah	Al Garrahi	Al Garrahi Hosp.	eDEWS team contacted focal point, suspected AFP cases were detected, sample was collected from patient by district coordinator, their contacts, sent to laboratory in Sanaa.	1	0
Measles	Ibb	aludayn and Al-Dhihar	aludayn, Al-Thawra and Al-Khansa 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.	3	0
Sch	Ibb	as ssabrah	nagd center	focal point was contaced,after investigation in laboratory was done result positive cases from different	12	0
CL	Ibb	Dhi sufal	Alkaida Hospital	focal point contact.case daignosis clinically by doctor and treatment taken..no investigation was done ,importance of conducting investigation was discussed.	1	0
AVH	Ibb	Dhi sufal and Jiblah	Alkaida and Jiblah HFs.	Focal point contacted, investigation results were positive (Heaptitis A) no contact information was available.,	6	0
BD	Ibb	Jiblah	jiblah Hospital	Focal point was contaced,after investigation it wasn't true bloody diarrhea(stool with strik of blood due to ameoba) and pateints are from different areas,case defintion was discussed again	3	0
Meningitis	Ibb	Jiblah	jiblah Hospital	focal point contacted,case was daignosis clinically ,treatment was given . LP was doneand results are awaited	3	0
OAD	Ibb	Dhi sufal	Alrazi Hospital	Child arrived to the ER with bad prognosis ,Resustation was done but the child died on the same day of admission	0	1
CL	hajjah	mabin	Health Center	eDEWS was contacted focal point was sheard information.Case was diagnosed(cl)has been sent to the al jumhori Hospital in the city for receiving free treatment. Where there is free treatment from the	1	
Measles	Hadramut	Alridh Qosear and Al-Shaher	Alridh and Al-Shaher HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Sample taken and connect with coordenation.	2	0
BD	Hadramut	Alridh Qosear	Alridh Hosp	eDEWS team contact focal point, cases diagnosed clinically and .using case definition. Antibiotic treatment was given to the patient	3	0
Pertussis	Hadramut	GailBawaser	GailBawaser and Al-Garh HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	3	0
Measles	Saada	Saada, Sahar, Hydan, Majz and Munabeh	Al-jumhory, Dr. Mosfer, Al-Taleh, Hydan, Dhahyan, Munabeh, Majz, Al-Butain and Al-Mahather HFs.	eDEWS team contact focal point, information shared. Blood sample were collected from 7 cases, and will be sent to sana'a central Lab. For Lab. Confirmation.	18	0
Pertussis	Saada	saada and Majz	Dr. Mosfer and Dhahyan HFs.	eDEWS team contact focal point .information shared .the cases information not clear	2	0
CL	Saada	Sehar, Ghamr, Razeh and Hydan	Dr. Mosfer, Ghamr, Razeh and Hydan	eDEWS team contact focal point, information shared, and start treetment at AL.jumhory Hospital	6	0
AVH	saada	Monnabbah	Monnabah Health hospitsl	eDEWS team contact focal point. Information shared. No blood samples were collected from the cases.	4	0
Sch	Saada	Majz and Hydan	Dhahyan and Khamis Marran HFs.	eDEWS team contact focal point, information shared, the cases were diagnosed by lab	16	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 desease, to facilitate a rapid public health response.						
This weekly Epidemiological bulletin is published jointly by the Ministry of Public Health & Polupation and World Health Organization (WHO), WHO/EHA office, Sana'a, Yemen. For Correspondence: Mobile:+967 715 695 482; WHO/EHA Office; Email: drkamranrajput@hotmail.com						4