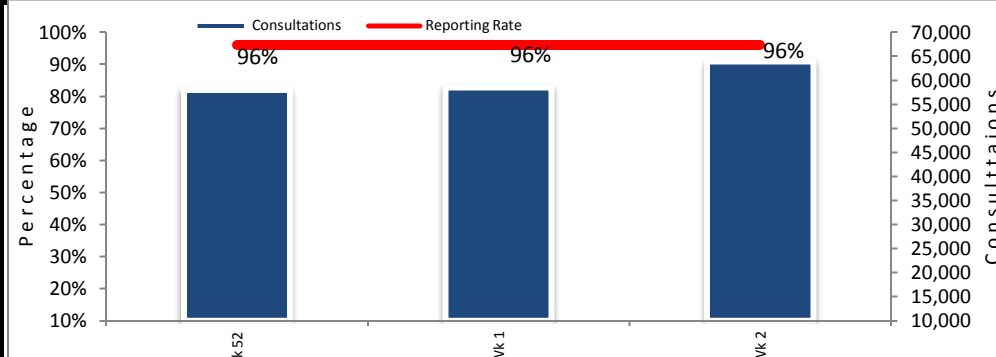


Volume 02, Issue 2, Epi week 2, 3 Jan. - 9 Jan. 2014

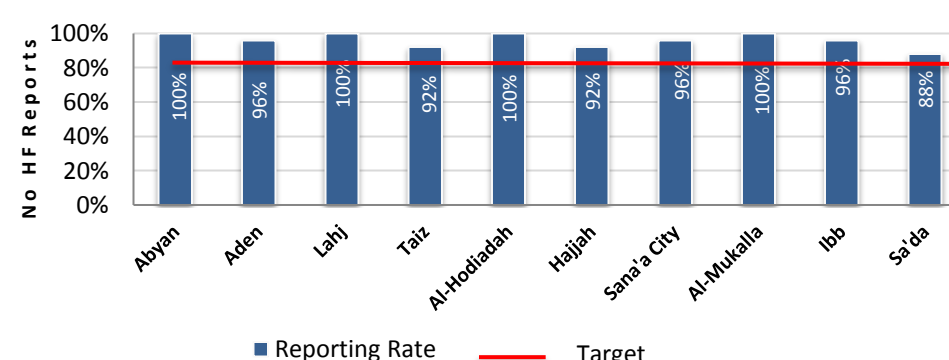
Highlights

- During week no 2, 2014; 96% (237/247) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 63884 compared to 58531 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 2, 2014; Of these, 65 alerts were verified as true for further investigations with appropriate response.
- Altogether 30 alerts Measles, 11 Petrussis, 7 AVH, 4 each for Dengue fever and Meningitis, 3 C.Leishmaniasis, 2 each for Acute Flaccid Paralysis and Pneumonia, and 1 each for Schistosomiasis and 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 52, 2013 to 2, 2014



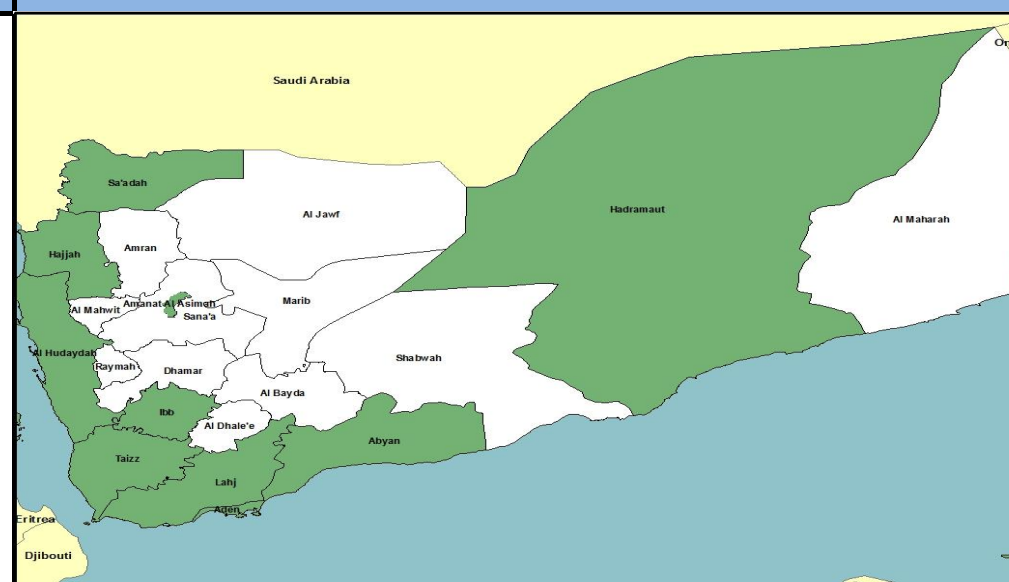
Distribution of Reporting Rates by Governorates (Epi-week 2, 2014)



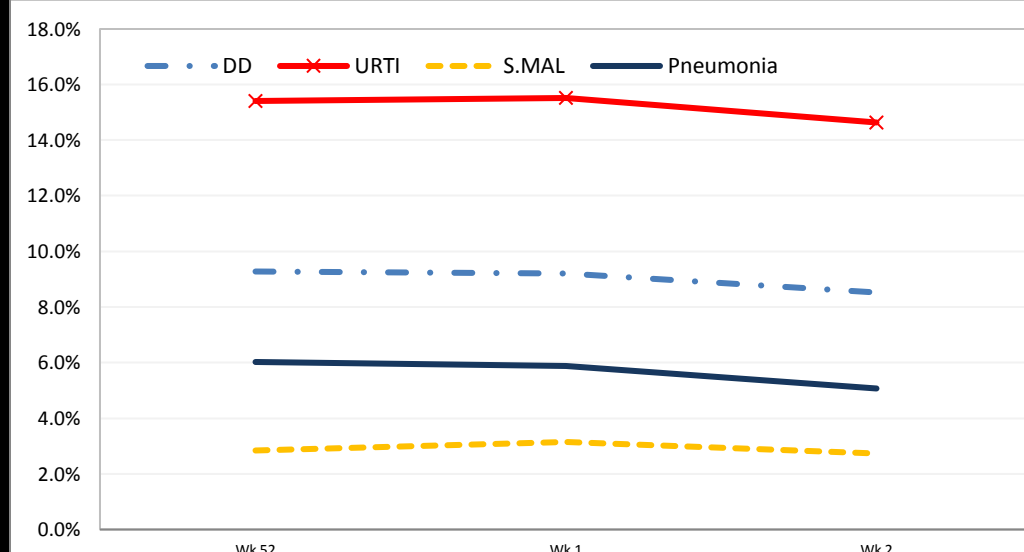
Leading Priority Diseases - 10 Governorates (Epi-week 2, 2014)

- URTI (14.6%), suspected malaria (2.7%), OAD (8.1%) and Pneumonia (5.1%) remain the leading causes of morbidity representing a total of 30.5%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.4% of this morbidity.
- All diarrheal disease comprised 8.5% and Pneumonia 5.1% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5% and Pneumonia 3% of total morbidity in the <5 years age group.

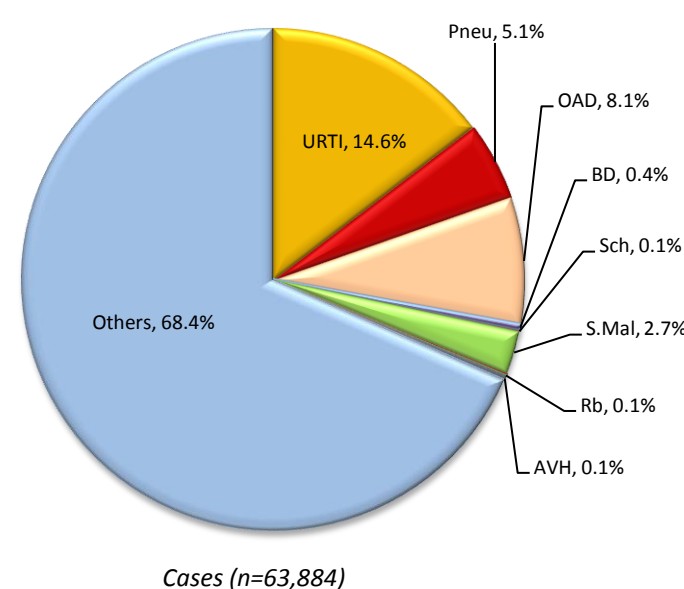
124 districts from 10 Governorates reported to eDEWS in week 2, 2014



Trends for Leading Priority Diseases in 10 Governorates - Epiweeks 52, 2013 to 2, 2014

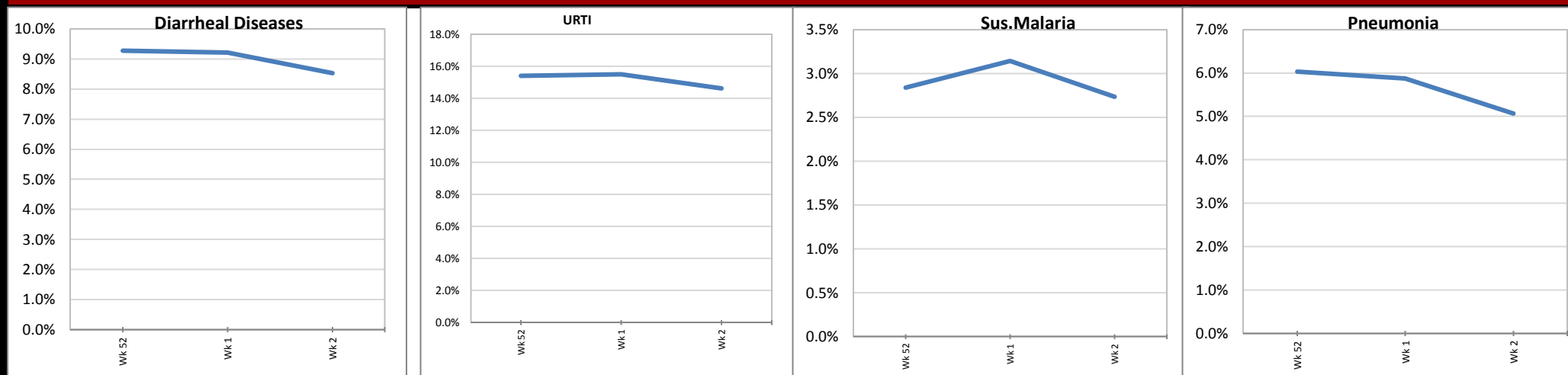


Proportional Morbidity for Leading Priority Diseases - Epiweek 2, 2014

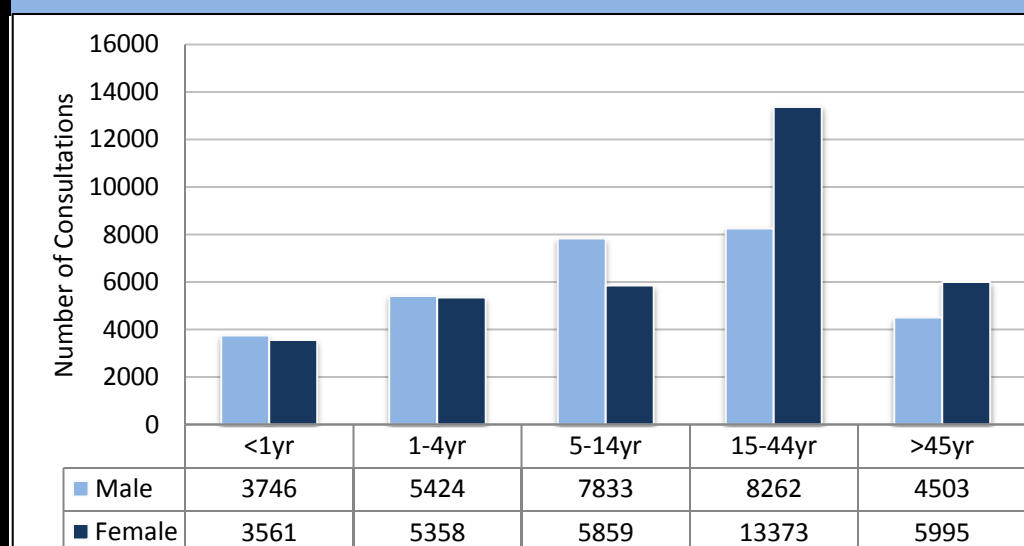


URT=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 52 to 2, 2014)



Age and Sex distribution of total consultations of leading diseases (Epi week 2, 2014)



Cumulative number of major health events reported in Epi-weeks 10, 2013 to 2, 2014 (1st March 2013 to 9th Jan. 2014)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	189912	16.4%
Diarrheal Diseases	93473	8.1%
Suspected Malaria	19747	1.7%
Pneumonia	48001	4.2%
Others	803618	69.6%
Total (All consultations)	1154751	100%

Leading Diseases by Governorate, Epiweek 2

- URTI was highest in Governorate Aden (27.5%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (14.2%) this week.

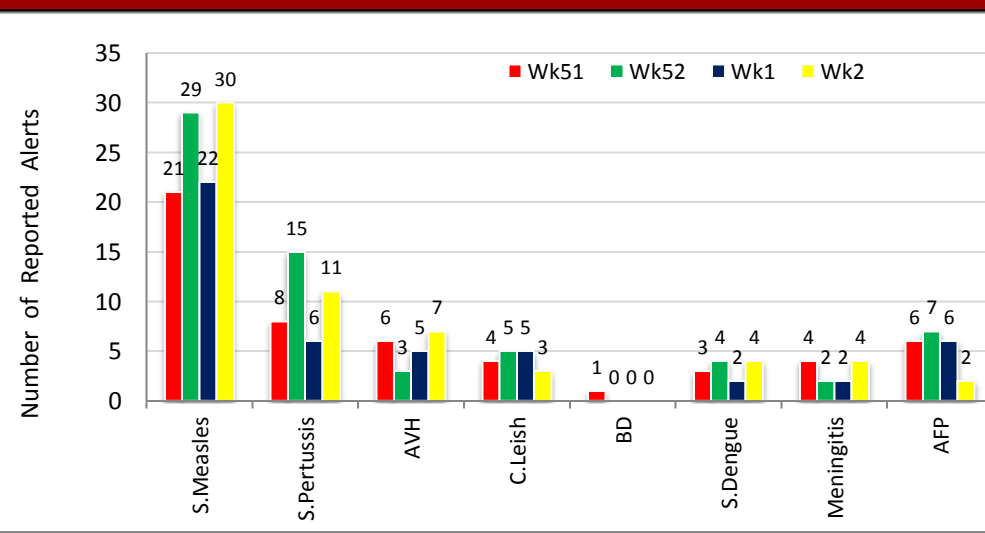
Distribution of consultations of leading diseases by Governorates, Epiweek 2

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URTI	582	1984	867	891	547	810	485	399	1546	1226	9337
Pneumonia	155	261	369	194	48	691	624	218	520	154	3234
OAD	270	667	183	396	196	651	405	438	1231	758	5195
BD	2	4	3	7	10	127	56	1	24	12	246
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	0	0	0	3	1	3	4	2	7	15	35
Malaria	17	37	18	70	0	141	733	553	22	154	1745
Meningitis	0	3	0	28	0	3	8	1	11	0	54
Dengue Fever	0	1	0	6	0	0	28	0	0	0	35
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0
Rabies	1	0	4	29	0	2	5	6	2	0	49
Measles	6	4	1	3	6	5	7	1	11	23	67
Acute Viral Hepatitis (A & E)	6	9	1	31	2	8	6	3	17	1	84
Neonatal Tetanus	0	0	0	0	0	0	0	0	0	0	0
Acute Flaccid Paralysis	0	1	0	0	0	1	0	0	2	0	4
Cutaneous Leishmaniasis	0	0	0	0	0	0	0	2	6	8	16
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	8	3	0	1	3	1	1	0	12	2	31
OtherUn	2	2	2	1	0	0	0	0	55	0	62
Other Consultations	2795	4232	2071	5342	2215	6455	8108	1653	7676	3143	43690
Total Consultations	3844	7208	3519	7002	3028	8898	10470	3277	11142	5496	63884

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013 - 2014		Current week 2, 2013		System Gen. Alerts (week 2)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	296	6	11	0	11	3
Measles	704	0	30	0	30	4
AFP	76	0	2	0	2	1
Schistosomiasis	25	0	1	0	1	1
Bloody Diarrhie	24	0	0	0	0	14
AVH	175	2	7	0	7	1
Denque fever	115	0	4	0	4	0
Meningitis	86	0	4	0	4	3
CL	109	1	3	0	3	4
NNT	31	0	0	0	0	0
OAD	14	0	1	0	1	0
VHF	4	0	0	0	0	0
Pneumonia	26	0	2	0	2	0
Total	1685	9	65	0	65	31

Number of Alerts Received and Responded (Epiweeks 51, 2013 and 2, 2014)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3844 patients consultations in week 2, 2014. Total 6 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 4 Alerts Measles and 2 Pertussis were reported and responded.

Aden Governorate

24 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7208 patients consultations in week 2, 2014. Total 11 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 3 alerts Measles, 2 each for AVH and Meningitis, and 1 each for Acute Flaccid Paralysis, Pertussis, 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 3519 patients consultations in week 2, 2014. Total 1 alert were reported and appropriate measures were taken in week 2, 2014. Altogether 1 alert Measles were reported and responded.

Taiz Governorate

23 health facilities from 8 districts in Taiz governorate reported to eDEWS with a total of 7002 patients consultations in week 2, 2014. Total 8 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 3 alerts AVH, 2 Measles, and 1 each for Meningitis, Dengue Fever and Pneumonia were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 3028 patients consultations in week 2, 2014. Total 6 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 3 alerts each for Measles and Pertussis were reported and responded.

Ibb Governorate

24 health facilities from 15 districts in Ibb governorate reported to eDEWS with a total of 8898 patients consultations in week 2, 2014. Total 6 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 4 alerts Measles, and 1 each for Pertussis and Acute Flaccid Paralysis were reported and responded.

Hodaidah Governorate

25 health facilities from 22 districts in Hodaidah governorate reported to eDEWS with a total of 10470 patients consultations in week 2, 2014. Total 10 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 4 alerts Measles, 3 Dengue Fever, and 1 each for Pertussis, Meningitis and AVH were reported and responded.

Hajjah Governorate

23 health facilities from 23 districts in Hajjah governorate reported to eDEWS with a total of 3277 patients consultations in week 2, 2014. Total 3 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 1 alert each for C. Lishmaniasis, Measles and AVH were reported and responded.

Amana Governorate

24 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 11142 patients consultations in week 2, 2014. Total 6 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 5 alerts Measles and 1 Pertussis were reported and responded.

Sa'da Governorate

22 health facilities from 15 districts in Sa'da governorate reported to eDEWS with a total of 5496 patients consultations in week 2, 2014. Total 8 alerts were reported and appropriate measures were taken in week 2, 2014. Altogether 3 alerts Measles, and 1 each for C.Leishmaniasis, Pertussis and Schistosomiasis were reported and responded.

Weekly Bulletin:Electronic Disease Early Warning & Response System, Yemen - Epidemiological Week Number 1 (3 Jan. - 9 Jan. 2014)						
Alerts/ Outbreak Investigated and Responded in Epi-week 2, 2014						
Suspected Disease	Governorate	District	HF's	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	Labaos and Yahar	Labaos and Yahar HF's.	eDEWS team contact focal point, surveillance coordinator was informed, cases were diagnosed clinically using case definition by doctor in clinic, cases were treated as per standard protocol for Pertussis.	8	0
Measles	Lahj	Alara and Tuban	alara, Saber, Al-hawtah and AlAnad HF's.	eDEWS team contact focal point, information shared; the cases were diagnosed clinically using case definition, blood samples were collected from the cases.	5	0
Measles	Aden	Al Muala, Dar Sad and Al-Shaikh Othman	Al Muala, Al-Basateen and Al-Wahdah HF's..	By contacting eDEWS focal point ,we were informed that ,investigation forms were done by OPD doctor, blood samples were taken for 2 cases only. One blood sample will be sent and the other sent to sana'a for lab confirmation.	4	0
AVH	Aden	Al Mansura and Al-Shaikh Othman	Al Wali and Al-Wahdah HF's..	Reported 6 cases complaining of jaundice, treated in OPD, no more information of patients in the registers.	6	0
AFP	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team visit the hospital. Investigation was conducted by AFP surveillance coordinator, 2 stool samples were collected from patient and 3 from close contacts . All samples were sent to central survillance center in Sana'a.	1	0
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team contact focal point, all cases were diagnosed clinically using cases definition, two cases were fom Aden and one from Abyan. Cases were treated adequately.	3	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	The informations obtained from focal point was 3 cases reported as meningitis. All cases were admitted to hospital and undergo the measures of Meningitis surveillance programme by filling investigation forms and LP investigation. LP was conducted only for 1 case.	3	0
OAD	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A female aged 5 months from Yafe'a admitted to hospital on 7/1/2014 with a diagnosis of SAM with sever dehydration. Patient complained of diarrhea for 1week and acute renal insufficiency on 8/1/2014. Patient died due to complication of SAM on 8/1/2014.	109	1
Pneu	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A male aged 8 months from Abyan admitted to hospital on 25/12/2013. The case diagnosed previously as congenital heart disease (VSD and ASD) and SAM. The case complained of high grade fever, cough and difficulty of breathing for 3days before admission. Patient diagnosed as bronchpnumonia and died on 7/1/2014.	35	1
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A female aged 4months with brain atrophy, diagnosed on 15/12/2013 as SAM and took treatment for malaria in outpatient department. On 3/1/2014 patient admitted to hospital with a complain of convulsion, fever and alter in consciousness. Patient died on 4/1/2014 with a final diagnosis of Meningitis. MPS was	3	1
Measles	Abyan	Khanfar	MCH Ja'ar	eDEWS team contact focal point, the case was diagnosed clinically using case definition.No blood sample was collected.	1	0
AVH	Taiz	Al Mudhaffar, AlQaherah and Salah	Alhikma, Sweden and Al-Safwah HF's.	Focal point contactedd , information shared 6 samples results were positive for Hepatitis A , pateints contact information were not available , the importance of detailed patients contact information was discussed again. The samples were sent to the lab. results are awaited.	25	0
Pneu	Taiz	Al Qahirah	Sweden Hospital	The death case(Chest infection) aged 3 months male child brought to hospital on 6/01/2014 C/O fever, severe cough , difficulty in breathing and cyanosis , medications have been started(Antibiotic , Oxygen ,Bronchodilators) ,he died on 8/01/2014	20	1
Meningitis	Taiz	Al Qahirah	Sweden Hospital	Focal point contacted, information shared , samples were sent to the HF lab. With negative results (No growth) , 21 samples only recorded at the HF lab. The suspected Meningitis death case aged 3 months , male hild from Kholan , admitted on29/12/2013 C/O fever, vomitin , diarrhea with positive L.P. Medication have been started , date of death 3/01/2014.	25	1
Measles	Taiz	Al Qahirah and Hayfan	Sweden and Hayfan HF's.	Focal point contacted, information shared, samples were collected , and will be send to the centrla lab. In Sanaa.	3	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, No cluster of 3 cases in one location was reported	3	0
Measles	Hadramut	Alridh Qosear, Dowan and Al-Shaher	Alridh, Al-Gowaerh and Al-Hamy HF's.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. The surveillance coordinator was informed, blood samples were collected and will be sent to sana'a surveillance lab for confirmation.	6	0
Pertussis	Hadramut	Alridh Qosear, Al-Mukalla and Gail Bawazer	Qosear, University and Gail Bawazer HF's.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	3	0
Measles	Ibb	Al udayen, Al-Dhihar and Al-Mashanah	Al udayen, Al-Amin, MCH and Naser HF's.	focal point was contacted.samles were collected and sent to central LAB.	5	0
AFP	Ibb	Almashanah	mch almashanah	focal point and coordinator were contacted.Investigation conducted and stool samples from case and contacts were collected and sent to Sanaa	1	0
Pertussis	Ibb	Al mashanah	mch almashanah	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	1	0
DF	Hodaidah	AL Hawak and Al-Qanawis	ALAMal, Al-Aksa and Al-Qanawis HF's .	Focal point contacted , information shared , patients were diagnosed clincially only (Elisa test wasn't done) , importance of refferance pateints to Hodaidah national lab for confirmation.	24	0
Measles	Hodaidah	Al Garrahi, Zabid, Al-Zaydiah and Al-Hawak	Al Garrahi, Zabid, Al-Zaydiah and Al-Aksa HF's.	eDEWS coordinator contacted focal point, cases were diagnosed clinicaly , samples were collected from patients by district coordinator and sent to laboratory in Sanaa.	7	0
Pertussis	Hodaidah	AL Hawak	Althawrah Hosp.	eDEWS team contacted focal point. The cases confirmed to be Pretusis , and treated appropriately..	1	0
Meningitis	Hodaidah	AL Hawak	AlAksa Hosp.	eDEWS coordinator contacted meningitis focal point, cases diagnosed as meningitis and treated appropriately.	6	0
AVH	Hodaidah	Bajel	Bajel Hosp.	eDEWS team contacted focal point. The cases confirmed to be AVH , and treated appropriately..	3	0
CL	Hajjah	Abs	Abs	eDEWS team contacted focal point. The cases confirmed to be CL and treated appropriately. No samples were collected from skin lesion.	2	0
Measles	Hajjah	Kuhlan Ash Sharaf	Health Center	eDEWS team contact focal point, information shared; the cases were diagnosed clinically using case definition, blood samples were collected from the cases and will be send to sana'a for lab confirmation	1	0
AVH	Hajjah	khayran al muharraq	ibn roshd health center	The cases confirmed to be AVH and treated appropriately	3	0
Measles	Amana	Al-sabin, Al-Wahdah, Maain, Shuaub and Azzal	Alwahda, Al-Shaheed, Maain, Al-Razi and Azzal HF's.	eDEWS team contact focal point, information shared blood samples were collected from the case and sent for lab confirmation.	9	0
Pertussis	Amana	Bani Alharith	Al-rawda Hospital	eDEWS team contact focal point, case was diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	1	0
Measles	Saada	Saada, Majz and Razih	Al-jumhory, Majz and Shaara HF's.	eDEWS team contact focal point, information shared; cases were diagnosed clinically using case definiton blood samples were collected from 4 cases and will be send to central lab in sanaa for	9	0
CL	Saada	saada and Hydan	Dr. Mosfer and Maran HF's.	eDEWS team contacted focal point the cases diagnosed CL and treated appropriately	2	0
Pertussis	Saada	Sehar and Razih	AL-Mahather and Shaara HF's.	eDEWS team contact focal point,surveillance coordinator was informed,cases were diagnosed clinicly using case definiton by doctor in clinic.on job training of doctor about investigaton was conducted.Reported cases were treatad as per standard protocol for pertussis	9	0
Sch	Saada	AL taher	AL-Malaheed hospital	eDEWES team contact focal point informaton shared treatment were given	5	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: drkamanrajput@hotmail.com						4