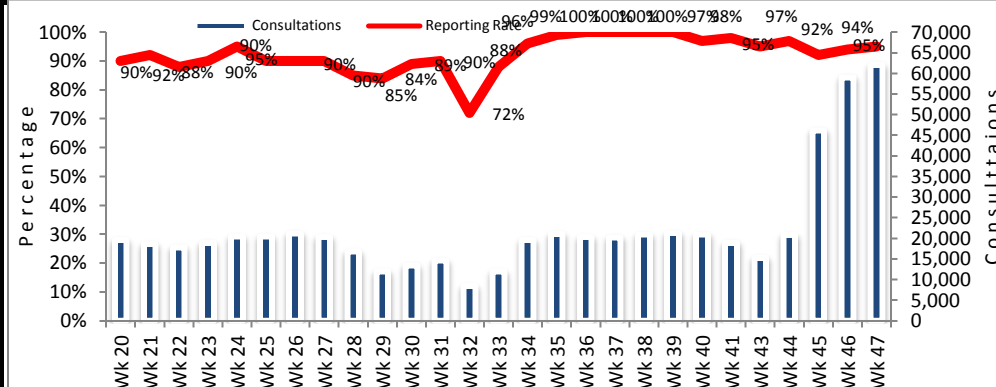


Volume 01, Issue 37, Epi week 47, 15 Nov. - 21 Nov. 2013

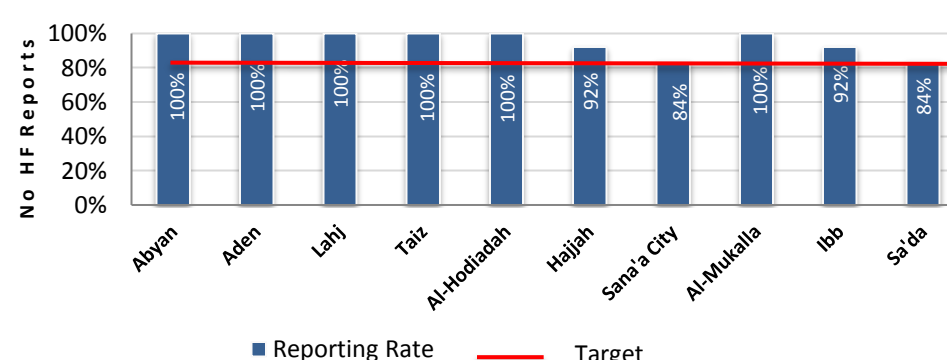
Highlights

- During week no 47, 2013; 95% (232/244) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 61976 compared to 59031 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 123 alerts were generated by eDEWS system in week 47, 2013; Of these, 78 alerts were verified as true for further investigations with appropriate response.
- Altogether 23 alerts Measles, 12 each for Petrussis and AVH, 9 C.Leishmaniasis, 6 Dengue fever, 4 each for Meningitis and Schistosomiasis, and 3 Pneumonia, and 2 each for Acute Flaccid Paralysis 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 46, 2013



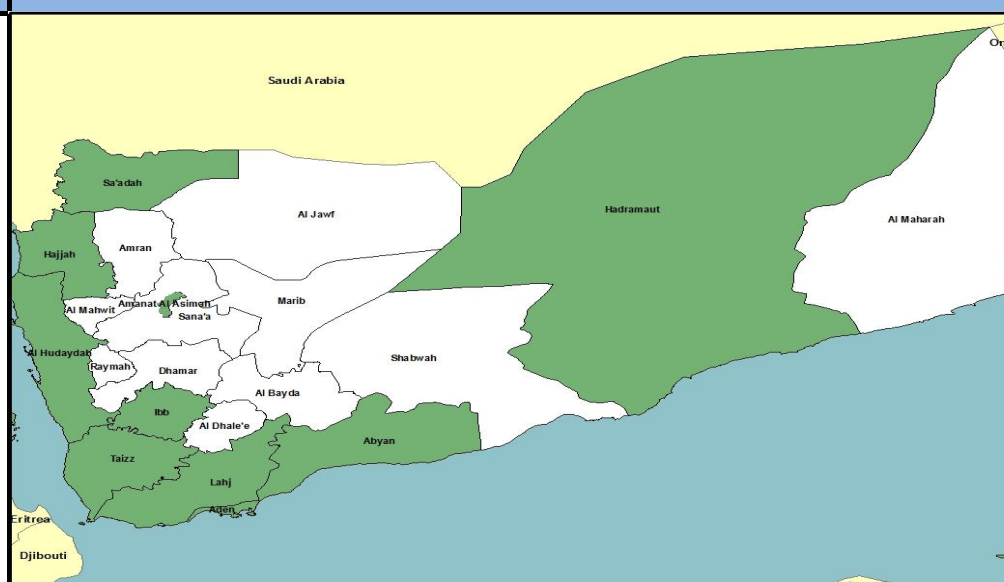
Distribution of Reporting Rates by Governorates (Epi-week 47, 2013)



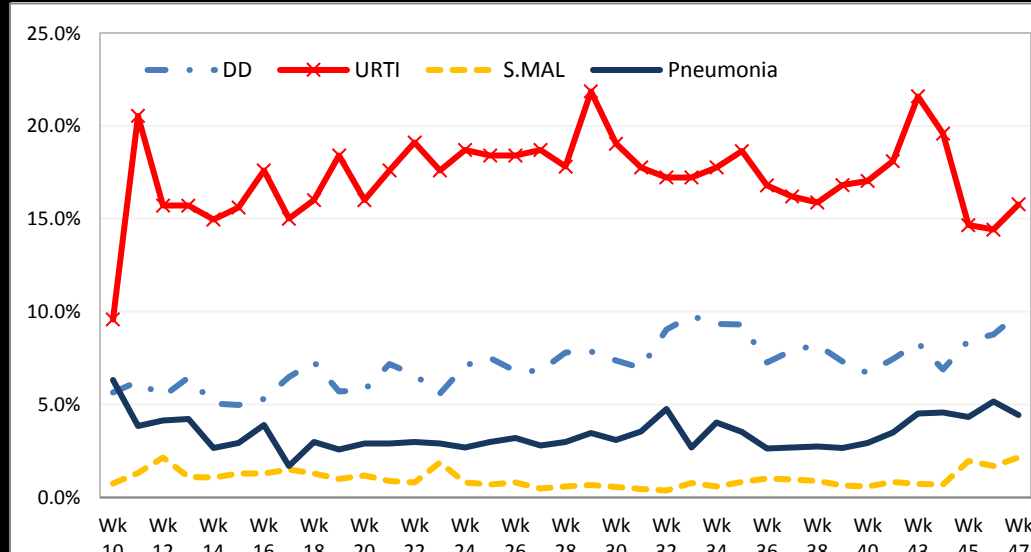
Leading Priority Diseases - 10 Governorates (Epi-week 47, 2013)

- URTI (15.8%), suspected malaria (2.2%), OAD (9.2%) and Pneumonia (4.4%) remain the leading causes of morbidity representing a total of 31.6%.
- 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 9.9% and Pneumonia 4.4% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5.67% and Pneumonia 2.52% of total morbidity in the <5 years age group.

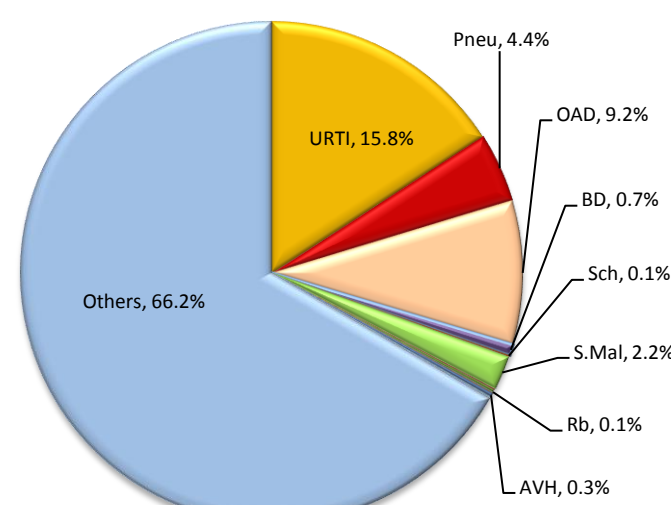
124 districts from 10 Governorates reported to eDEWS in week 47, 2013



Trends for Leading Priority Diseases in 9 Governorates - Epiweeks 10 to 47, 2013



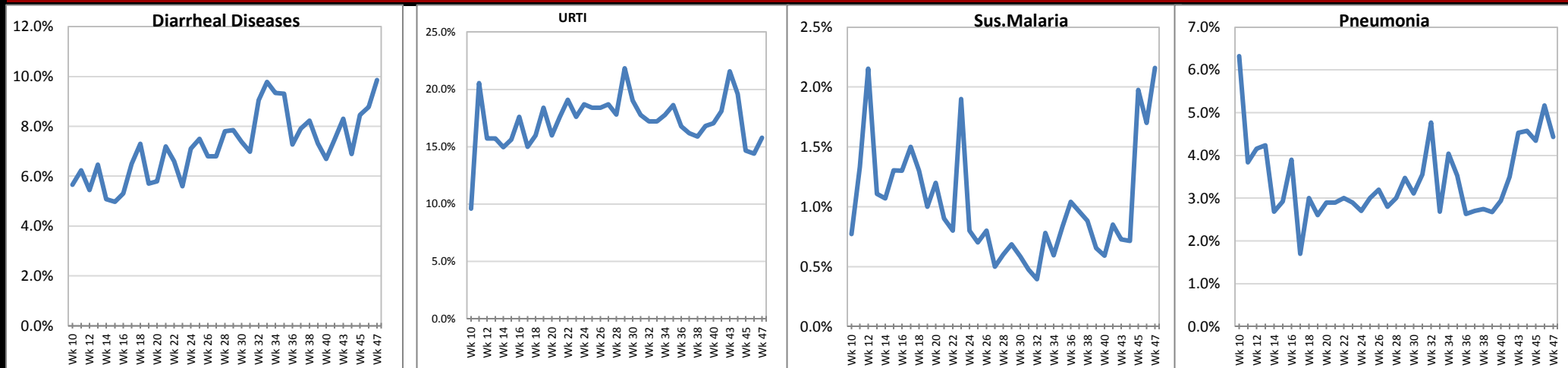
Proportional Morbidity for Leading Priority Diseases - Epiweek 47, 2013



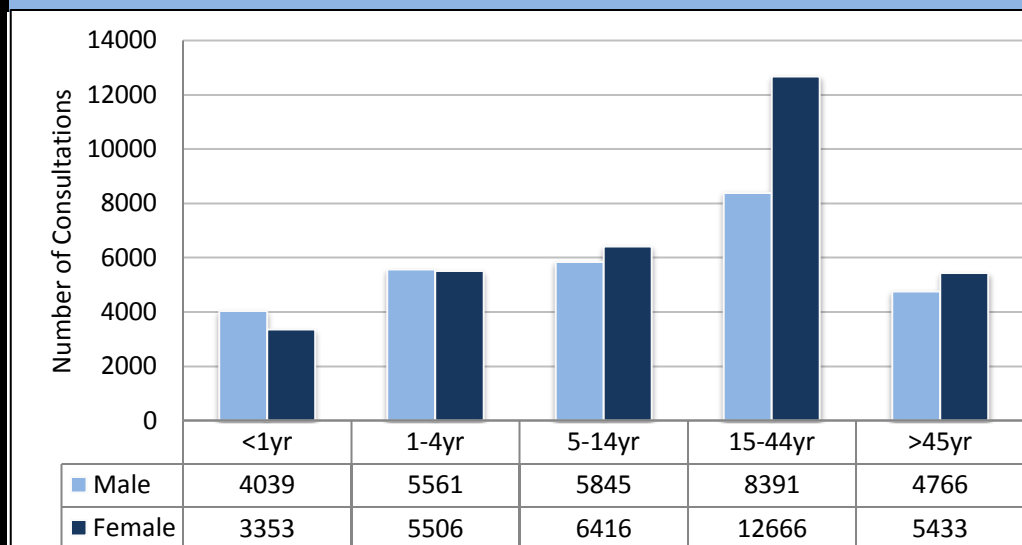
Cases (n=61,976)

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 47, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 47, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 47, 2013 (1st March 2013 to 21st Nov. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	126154	17.0%
Diarrheal Diseases	55833	7.5%
Suspected Malaria	8600	1.2%
Pneumonia	26183	3.5%
Others	525403	70.8%
Total (All consultations)	742173	100%

Leading Diseases by Governorate, Epiweek 47

- URTI was highest in Governorate Aden (31.21%) this week.
- Diarrheal Disease was highest in Governorate Sa'da (16.73%) this week.

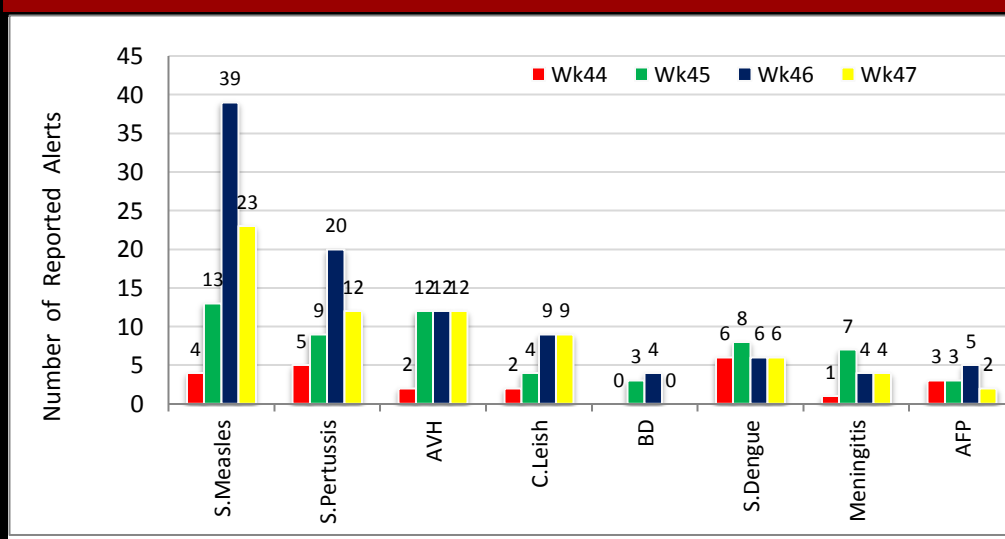
Distribution of consultations of leading diseases by Governorates, Epiweek 47

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URT	514	2281	747	1074	657	845	699	233	1381	1348	9779
Pneumonia	73	219	281	248	101	642	356	211	561	56	2748
OAD	219	872	213	640	248	708	500	296	1136	855	5687
BD	4	8	4	50	6	152	147	0	32	23	426
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	0	0	0	6	1	17	19	2	5	12	62
Malaria	42	29	12	37	7	98	546	462	19	87	1339
Meningitis	0	8	0	27	0	6	2	0	5	0	48
Dengue Fever	0	0	1	96	0	0	16	0	0	0	113
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0
Rabies	1	0	3	23	0	1	1	4	0	0	33
Measles	1	7	0	1	4	6	4	9	5	16	53
Acute Viral Hepatitis (A & E)	2	6	0	66	7	33	18	0	31	0	163
Neonatal Tetanus	0	0	0	0	0	0	3	0	0	0	3
Acute Flaccid Paralysis	0	0	0	0	0	0	0	2	1	0	3
Cutaneous Leishmaniasis	2	0	0	0	0	4	5	0	8	7	26
Diphtheria	0	0	0	0	0	1	0	0	0	0	1
Pertussis	2	4	0	3	6	3	8	1	11	1	39
OtherUn	1	3	0	0	0	0	390	0	20	0	414
Other Consultations	2570	3871	1792	5985	2612	8657	6585	1404	4720	2843	41039
Total Consultations	3431	7308	3053	8256	3649	11173	9299	2624	7935	5248	61976

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 47, 2013		System Gen. Alerts (week 47)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	224	4	12	0	12	0
Measles	521	0	23	0	23	3
AFP	51	0	2	0	2	1
Schistosomiasis	17	0	4	0	4	0
Bloody Diarrhie	17	0	0	0	0	31
AVH	132	2	12	0	12	2
Denque fever	84	0	6	0	6	0
Meningitis	61	0	4	0	4	2
CL	69	1	9	0	9	2
NNT	22	0	2	0	2	1
OAD	8	0	1	0	1	0
VHF	4	0	0	0	0	0
Pneumonia	19	0	3	0	3	0
Total	1229	7	78	0	78	42

Number of Alerts Received and Responded (Epiweeks 44 and 47, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3431 patients consultations in week 47, 2013. Total 4 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 2 Alerts C. Leishmaniasis, and 1 each for Measles and Pertussis were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 7308 patients consultations in week 47, 2013. Total 9 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 6 alerts Measles, 1 each for Pertussis, Pneumonia and Meningitis were reported and responded.

Abyan Governorate

22 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 3053 patients consultations in week 47, 2013. No alerts were reported and appropriate measures were taken in week 47, 2013.

Taiz Governorate

22 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 8256 patients consultations in week 47, 2013. Total 12 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 5 alerts Dengue Fever, 3 AVH, and 1 each for Meningitis, Measles, Pertussis and Pneumonia were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 3649 patients consultations in week 46, 2013. Total 5 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 4 alerts Pertussis and 1 Measles were reported and responded.

Ibb Governorate

23 health facilities from 13 districts in Ibb governorate reported to eDEWS with a total of 11173 patients consultations in week 47, 2013. Total 10 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 4 AVH, 2 each for Measles and Schistosomiasis, and 1 each for 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 9299 patients consultations in week 47, 2013. Total 12 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 3 alerts each for Measles and AVH, 2 NNT, and 1 each for Dengue Fever, Meningitis, C.Leishmaniasis and Schistosomiasis were reported and responded.

Hajjah Governorate

23 health facilities from 23 districts in Hajjah governorate reported to eDEWS with a total of 2624 patients consultations in week 47, 2013. Total 4 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 2 alerts Acute Flaccid Paralysis, and 1 each for Measles and Pertussis were reported and responded.

Amana Governorate

21 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 7935 patients consultations in week 47, 2013. Total 14 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 4 alerts Measles, 2 each for AVH, Pertussis and C. Leishmaniasis, and 1 each for Meningitis, Pneumonia, Schistosomiasis and OAD were reported and responded.

Sa'da Governorate

21 health facilities from 14 districts in Sa'da governorate reported to eDEWS with a total of 5248 patients consultations in week 47, 2013. Total 8 alerts were reported and appropriate measures were taken in week 47, 2013. Altogether 4 alerts Measles, 3 C.Leishmaniasis and 1 Pertussis were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 47, 2013

Suspected Disease	Governorate	District	HF	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Almadarbh	alarah Hospital	Measles focal point was contacted and information was shared; Field visit was done, no blood sample was collected from the case .	1	0
Pertussis	Lahj	tuban	alanad HU	eDEWS team contacted focal point, cases were diagnosed clinically using case definition by doctor in clinic, cases were treated as per standard protocol for Pertussis. A visit will be conducted in the following two days.	2	0
Measles	Aden	Al Mansura, Craiter, AlTawahi, Khor Maskar and AlShaikh Othman	Al-Qahera, Al-Qateea, AlTawahi, Khor Maksar, Al-Wahdah and AlShaikh Othman 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 3 cases and will be sent to sana'a central lab for confirmation.	7	0
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	eDEWS team visit the hospital, cases diagnosed by doctor in duty in emergency department, full information were not registered. A training to Al-Wehda Hospital staff doctors will be conducted in the hospital this week to discuss case definition, alerts and introduction about eDEWS.	4	0
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A female child aged 5 years admitted to hospital on 6/11/2013 with a diagnosis of hydrocephalus with meningoencephalitis. The case died on 14/11/2013.	5	1
Pneumonia	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	<u>First case:</u> A female child aged 2months from Albasateen, admitted to hospital on 15/11/2013 in a bad condition, she was febril with sever respiratory distress. The case died on the same day. <u>Second case:</u> A female child aged 2 months from Abyan, admitted to hospital on 17/11/2013 complaining of high grade fever, difficulty in breathing and generalized tonic-clonic convulsion. Patient died on the same day.		2
DF	Taiz	Al Qahirah and Al_Mudhafar	26 September, Yemen International, AlRawdha, Al_Hekmah 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)	132	0
Pneumonia	Taiz	Al Qahirah	Sweden Hospital	3 Death cases due to Chest infection were reported from Sweden hospital this week , we visited the hospital and checked the records, The 1st death case aged 10 months ,M child from Albarh , Date of admission :19/11/2013 , C/O fever , cough , apnea ,and Sever malnutriton(SAM) , Medications have been started(Antibiotics, Antipyretics , Oxygen inhalation) , Date of death :20/11/2013. The 2nd death case aged 9 months , M child from Kalaba ,Admitted on 18/11/2013, C/O fever , apnea and cyanosis ,diarrhea and sever malnutriton(SAM) , I.V fluids , Antibioitics ,Packed R.B.C.s,Aiminphylllin and Oxygen were given , he diied next day :19/11/2013. Records checked but No infomrration were found about the 3rd death case (F<5 yrs).	34	3
Meningitis	Taiz	Al Qahirah	Sweden Hospital	Edews team visited the HF , 27 samples for suspected Meningitis cases were reported at the lab. Records with negative results(No growth) . The suspected Meningitis death case aged 11 years M child from Alhashmah ,he was admitted to hospital on 20/11/2013 , in coma with history of fever , headach and neck rigidity , ,Medications(Antibiotics , Antipyretic , Oxygen inhalation) have been started , he died on the same day of admission.	25	1
Measles	Taiz	Al Qahirah	Sweden Hospital	Focal point was contactd , information shared , sample was collected and sent to the central lab. In Sanaa.	1	0
AVH	Taiz	Al Qahirah and Al_Mudhafar	Sweden, Al-Hikmah and AlTawon HFs.	Case definition , Alert threshold for suspected AVH cases was asked during Edews team visit to the HF, 16 samples were collected for this week according to the HF lab. Records , 7 positive results for Hepatitis A , BUT patients are from different areas(No cluster of 3 cases in one location) and the rest Samples were sent to the lab. results are awaited.	55	0
Pertussis	Taiz	Al Qahirah	Al-Tawon Hosp.	Focal point was contacted ,No information about the suspected Pertussis cases were given , the impotrance of pateints contact full information have been reviewd.	3	0
AVH	Amana	Assafia and Al-Tahrir	Al-Thwra Modern Hosp and Al-Kuwait Hospital	eDEWS team contact focal point, information shared. three cases confirmed by lab test .16 cases diagnosed clinically cases came from different districts and area The address of cases were not registered. .	22	0
Measles	Amana	Assafia, Al-Wahdah, Maen Al-Thawrah	Al-Thwra Modern Hosp, Al-Shaheed, Gaza and Al-Farabi HFs.	eDEWS team contact focal point, information shared blood sample were collected from 4 cases surveillance cordinator has been informed.	7	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 was don reslut negativ.	3	0
Pneumonia	Amana	Assafia	Al-Thwra Modern Hosp	eDEWS team contact focal point, information shared,the caeses less than one year old diagnosid as sever Pnumonia several days. One case from dhamar cecond case from beer obid.	0	2
OAD	Amana	Assafia	Al-Thwra Modern Hosp	eDEWS team contact focal point, information shared .one case aged 27 d with and and the three cases lsee than three years. Cases cameto ER with dehydration due to diarrhea for several days tow cases daid ER and tow cases in pico .cases came from dhmar ,imran,msick,shumilah.no address registered.	0	4
Pertussis	Amana	Assafia and Al-Sabin	Al-Thwra Modern Hosp and 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 district.no admission in the hospital	11	0
AFP	hajjah	abs and Washaha	Abs and Washha HFs.	eDEWS was contacted surveillance Coordinator and information was shared. The AFP cases 12 month-old girl from koaidnah district and femaleThree-year-old, stool sample was collected from the case and sent to the central serveillance center	2	0
Pertussis	hajjah	aslem	Aslem Health Center	eDEWS team was contacted focal point and information was shared. The was diagnosed clinically using case definition. Antibiotic treatment was given to the patient	1	0
Measles	hajjah	washhhah	Washhhah Health Center	The number of suspected Measles (9) the number of deaths (1) child aged 15 months old from the (shaalal) Village and some of the individuals in this region refuse vaccination because of religious belief that the vaccine from the West and their reference religious vaccination did not say to them as they follow the al-Houthi movement.After the communication team was formed from the Directorate to investigate and gather information. Samples were collected and sent to central Lab. for Lab confirmation	9	1
Pertussis	Hadramoute	Alridh Qosear, Mukalla, GailBawase	Gosear, Unevirsitey, MCH and AlGail HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	6	0
Measles	Hadramoute	GailBawaser	ALGarhHealth center	eDEWS team contact focal point, the case was diagnosed clinically using case definition.Surveillance coordinator was informed, blood sample will be collected and sent to sana'a central Lab. For Lab. Confirmation.	1	0
Pertussis	Ibb	ALQafr	Rihab Hospital	focal point contacted.cases were diagnosed clinically by using case definition , pateint contact information was registered	3	0
Sch	Ibb	as ssabrah and Adhihar	nagd and Dar Al-Shifa	focal point was contaced,after investigation all the cases confirmed by LAB	13	0
AVH	Ibb	AL Mashannah and Adhihar	MCH, Dar Al-Shifa, AlAmin and Al-Khansa HFs.	Focal point was contacted. All cases confirmed by LAB , The patients from different areas	23	0
Measles	Ibb	AL Mashannah and Adhihar	Naser and Al-Thawrah HFs.	Focal point was contacted , Blood sample were collected from the cases and sent to central LAB, Pateint contact information was registered	5	0
Measles	Saada	Saada	Al-jumhory hospital	eDEWS team contact focal point, information shared, No blood samples were collected from the cases.	3	0
Pertussis	Saada	saada	Dr. Mosfer Clinic	eDEWS team contact focal point , information shared, the cases were clinically diagnosed and start the treatment.	1	0
Measles	Saada	Sehar, Monabbih and Razeh	At Talh, Monabbih and Al-Nather HFs.	eDEWS team contact focal point, information shared, no samples was collected and start treatment.	8	0
Measles	Hodaidah	Al Qanawis, Al-Hawak and As Salif	Al Qanawis, AlAksa and As Salif HFs.	eDEWS team contacted focal point, The cases were diagnosed clinically as suspected Measles , samples were collected from the patients by district coordinator ,send to central LAB.	3	0
Meningitis	Hodaidah	AL Hawak	AlAksa Hosp.	eDEWS team contacted meningitis focal point, cases diagnosed clinically as meningitis and treatment was given one case was death due to late diagnosis.	2	1
DF	Hodaidah	AL Hawak	ALAmal Hosp.	Focal point contacted , information shared , patients were diagnosed clincially only (Elisa test wasn't done) , importance of referance pateints to the Hodaidah national lab. for confirmation was discussed , importance of reporting patients contact information was discussed too.	7	0
AVH	Hodaidah	AL Hawak and Bajel	AlAksa, Bajel and AlRasheed HFs.	eDEWS team contacted focal point, cases were confirmed to be AVH and treated appropriately	15	0
NNT	Hodaidah	AL Hawak	AlAksa and AlThawrah HFs.	eDEWS team contacted focal point. The cases diagnosed Clinically as NNT and treated appropriately.	2	0
Sch	Hodaidah	Bajel	Bajel Hospital	District coordinator was contacted,after investigation was done by lab (stool & urine samples collected) , The pateints from different areas,case defintion was discussed..	15	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.