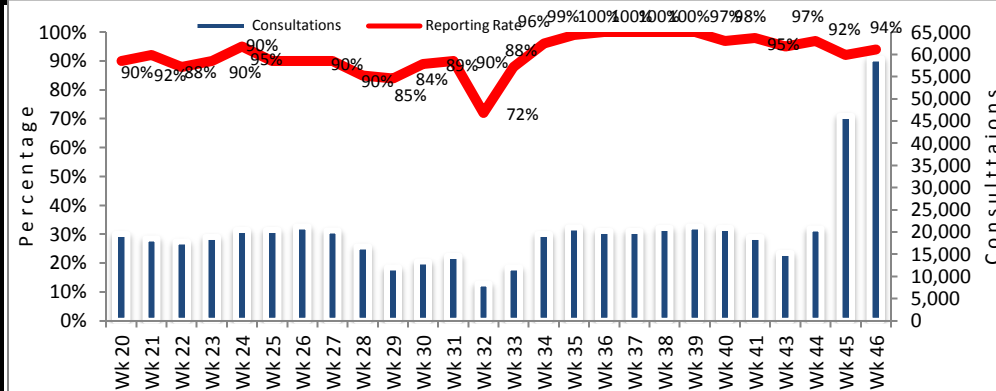


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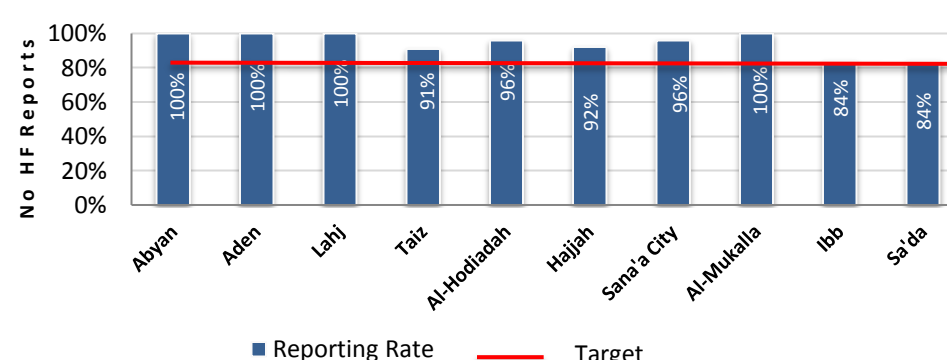
Highlights

- During week no 46, 2013; 94% (230/244) health facilities from 10 governorates provided valid surveillance data.
- The total number of consultations reported during the week in 10 governorates was 59031 compared to 46125 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 137 alerts were generated by eDEWS system in week 46, 2013; Of these, 109 alerts were verified as true for further investigations with appropriate response.
- Altogether 39 alerts Measles, 20 Petrussis, 12 AVH, 9 C.Leishmaniasis, 6 Dengue fever, 5 Acute Flaccid Paralysis, 4 each for Meningitis, Bloody Diarrhea and Schistosomiasis, and 2 each for NNT, Pneumonia 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 20 to 46, 2013



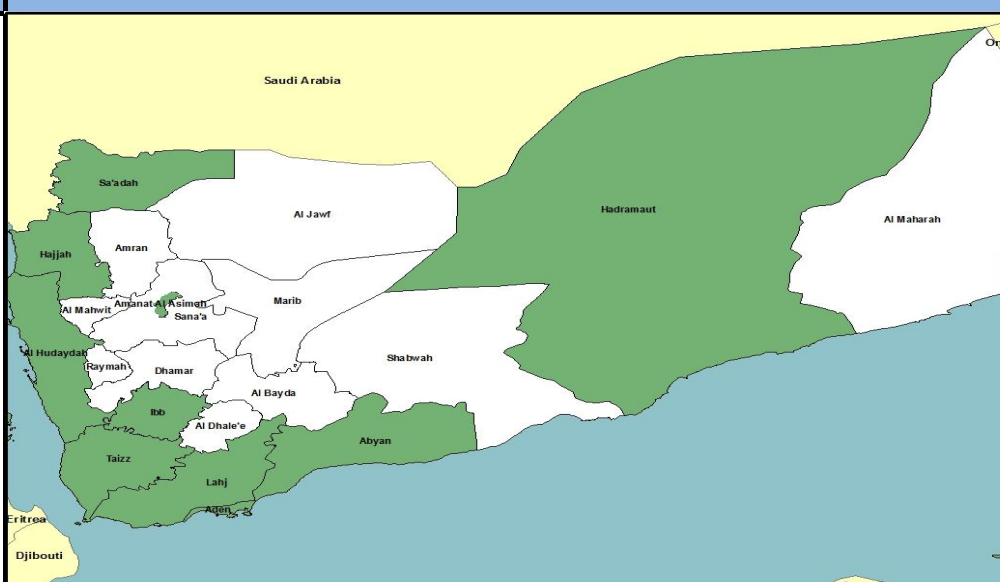
Distribution of Reporting Rates by Governorates (Epi-week 46, 2013)



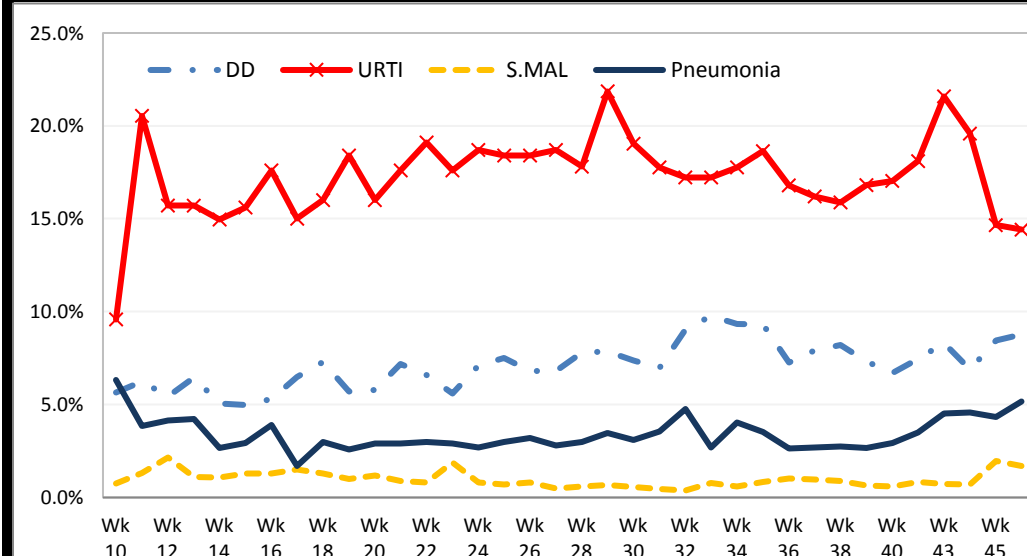
Leading Priority Diseases - 10 Governorates (Epi-week 46, 2013)

- URTI (14.4%), suspected malaria (1.7%), OAD (8.2%) and Pneumonia (5.2%) remain the leading causes of morbidity representing a total of 29.5%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.6% of this morbidity.
- All diarrheal disease comprised 8.8% and Pneumonia 5.2% of total morbidity in All Governorates this week.
- All diarrheal disease comprised 5.22% and Pneumonia 3.01% of total morbidity in the <5 years age group.

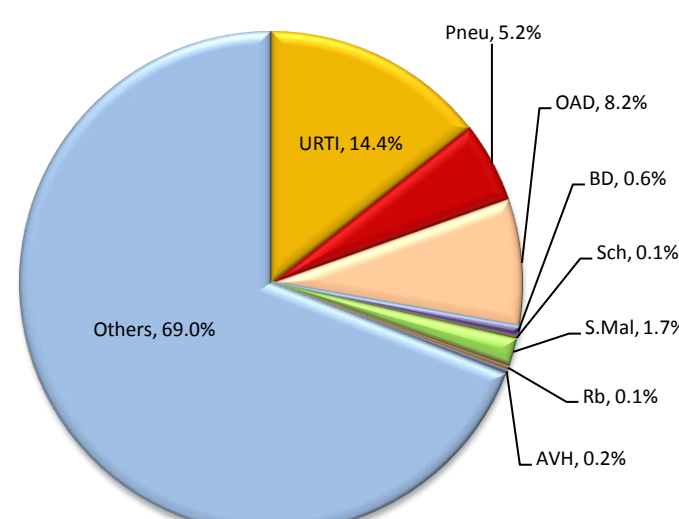
118 districts from 10 Governorates reported to eDEWS in week 46, 2013



Trends for Leading Priority Diseases in 9 Governorates - Epiweeks 10 to 46, 2013



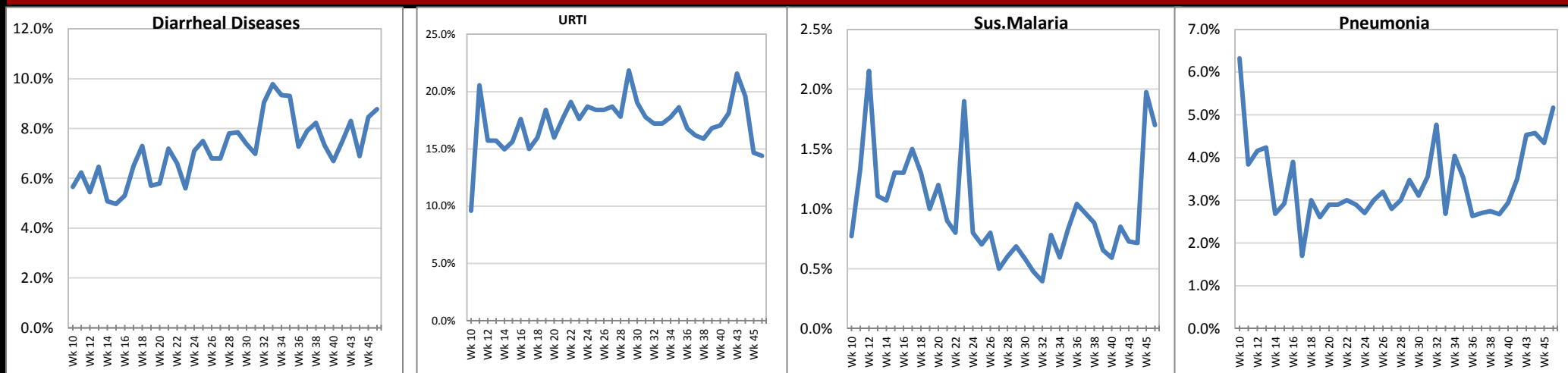
Proportional Morbidity for Leading Priority Diseases - Epiweek 46, 2013



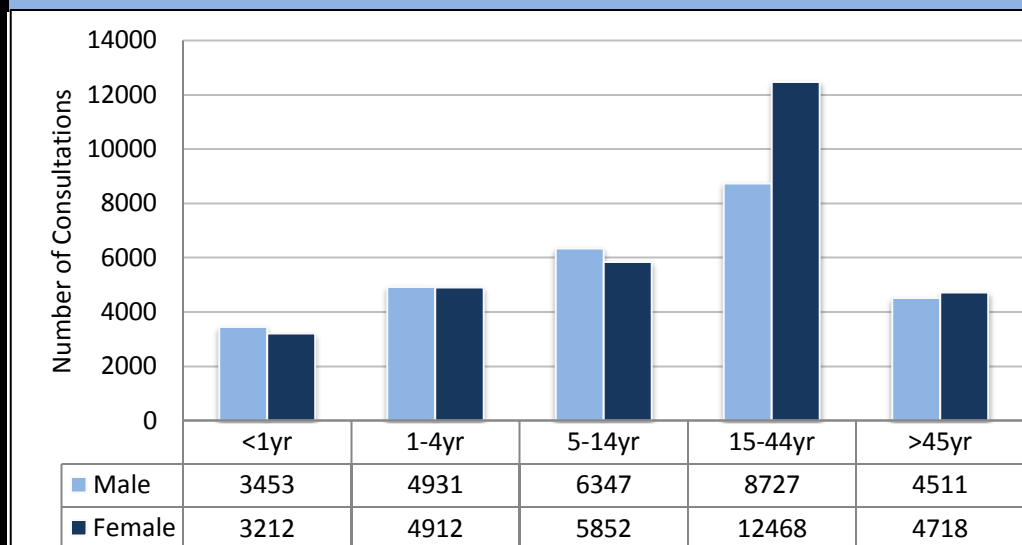
Cases (n=59,031)

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 46, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 46, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 46, 2013 (1st March 2013 to 14th Nov. 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	116375	17.1%
Diarrheal Diseases	49720	7.3%
Suspected Malaria	7261	1.1%
Pneumonia	23435	3.4%
Others	483406	71.1%
Total (All consultations)	680197	100%

Leading Diseases by Governorate, Epiweek 46

- URTI was highest in Governorate Aden (27.12%) this week.
- Diarrheal Disease was highest in Governorate Amana (17.87%) this week.

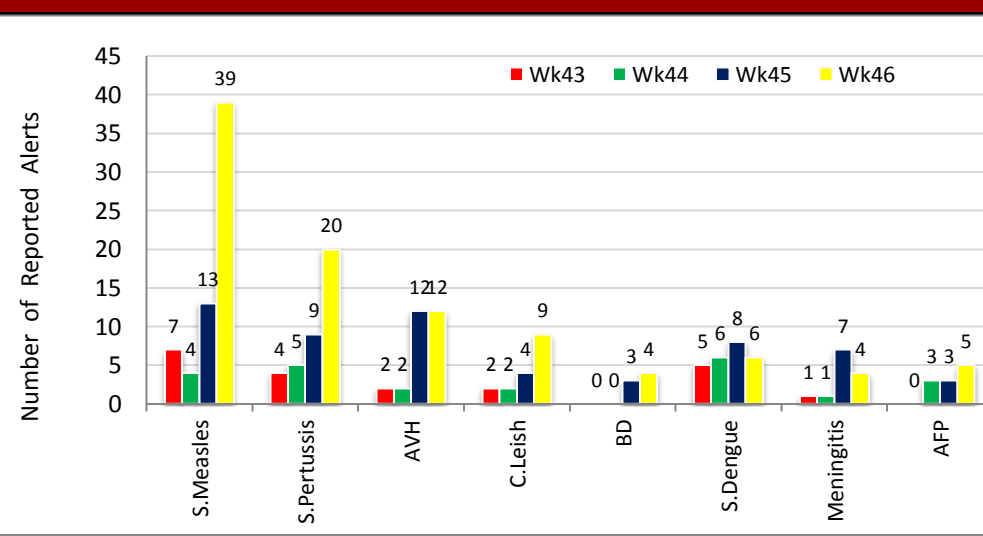
Distribution of consultations of leading diseases by Governorates, Epiweek 46

Suspected Disease	Lahj	Aden	Abyan	Taiz	Hadramout	Ibb	Hodaidah	Hajjah	Amana	Sa'da	Total
URTI	543	2241	787	900	755	563	420	277	1272	750	8508
Pneumonia	86	188	309	155	125	464	400	180	522	622	3051
OAD	267	850	198	360	202	437	282	260	1225	735	4816
BD	4	1	0	30	12	139	76	7	68	27	364
AWD	0	0	0	0	0	0	0	0	0	0	0
Schistosomiasis	0	0	1	12	2	40	0	9	7	17	88
Malaria	17	29	12	9	5	74	403	306	20	129	1004
Meningitis	0	7	0	30	2	6	4	0	8	1	58
Dengue Fever	0	0	4	27	1	1	8	0	0	0	41
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0
Rabies	1	0	0	27	0	3	2	3	1	0	37
Measles	4	4	2	2	10	8	3	3	11	28	75
Acute Viral Hepatitis (A & E)	10	13	1	20	5	27	3	1	38	6	124
Neonatal Tetanus	0	0	0	1	0	0	1	0	0	0	2
Acute Flaccid Paralysis	0	0	0	1	0	0	1	1	2	0	5
Cutaneous Leishmaniasis	0	0	0	0	0	3	1	1	2	4	11
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Pertussis	2	3	0	0	7	4	1	3	12	8	40
OtherUn	0	0	0	1	1	0	83	0	17	0	102
Other Consultations	2473	4928	2192	5585	3603	7471	6228	1755	4032	2438	40705
Total Consultations	3407	8264	3506	7160	4730	9240	7916	2806	7237	4765	59031

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 46, 2013		System Gen. Alerts (week 46)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	1
Pertussis	212	4	20	0	20	0
Measles	498	0	39	0	39	2
AFP	49	0	5	0	5	0
Schistosomiasis	13	0	4	0	4	0
Bloody Diarrhie	17	0	4	0	4	23
AVH	120	2	12	0	12	0
Denque fever	78	0	6	0	6	0
Meningitis	57	0	4	0	4	0
CL	60	1	9	0	9	1
NNT	20	0	2	0	2	0
OAD	7	0	2	0	2	0
VHF	4	0	0	0	0	0
Pneumonia	16	0	2	0	2	0
Total	1151	7	109	0	109	27

Number of Alerts Received and Responded (Epiweeks 43 and 46, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3407 patients consultations in week 46, 2013. Total 6 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 4 alerts Measles, 1 each for Pertussis and AVH were reported and responded.

Aden Governorate

25 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 8264 patients consultations in week 46, 2013. Total 10 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 4 alerts Measles, 2 AVH, 1 each for Pertussis, 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 3506 patients consultations in week 46, 2013. Total 3 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 2 alerts Measles and 1 Dengue Fever were reported and responded.

Taiz Governorate

20 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7160 patients consultations in week 46, 2013. Total 11 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 4 alerts Dengue Fever, 2 AVH, and 1 each for Meningitis, Acute Flaccid Paralysis, Schistosomiasis and NNT were reported and responded.

Hadramout Governorate

25 health facilities from 7 districts in Hadramout governorate reported to eDEWS with a total of 4730 patients consultations in week 46, 2013. Total 9 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 5 alerts Pertussis and 4 Measles were reported and responded.

Ibb Governorate

21 health facilities from 11 districts in Ibb governorate reported to eDEWS with a total of 9240 patients consultations in week 46, 2013. Total 17 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 6 alerts Measles, 4 AVH, 3 C.Leishmaniasis, 2 each for Pertussis and Schistosomiasis were reported and responded.

Hodaidah Governorate

24 health facilities from 20 districts in Hodaidah governorate reported to eDEWS with a total of 7916 patients consultations in week 46, 2013. Total 9 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 3 alerts Measles, and 1 each for Dengue Fever, Meningitis, C.Leishmaniasis, Acute Flaccid Paralysis, Pertussis and NNT were reported and responded.

Hajjah Governorate

23 health facilities from 23 districts in Hajjah governorate reported to eDEWS with a total of 2806 patients consultations in week 46, 2013. Total 6 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 2 alerts Pertussis, and 1 each for Measles, C.Leishmaniasis, Acute Flaccid Paralysis and Schistosomiasis were reported and responded.

Amana Governorate

24 health facilities from 10 districts in Amana governorate reported to eDEWS with a total of 7237 patients consultations in week 46, 2013. Total 19 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 5 alerts Pertussis, 4 Bloody Diarrhea, 3 Measles, 2 each for AVH and Acute Flaccid Paralysis, 1 each for Meningitis, Pneumonia and OAD were reported and responded.

Sa'da Governorate

21 health facilities from 15 districts in Sa'da governorate reported to eDEWS with a total of 4765 patients consultations in week 46, 2013. Total 19 alerts were reported and appropriate measures were taken in week 46, 2013. Altogether 11 alerts Measles, 4 C.Leishmaniasis, 3 Pertussis and 1 AVH were reported and responded.

Alerts/Outbreak Investigated and Responded in Epi-week 46, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Laboas, AlQabaitah, AIMilah and AIMusaimer	Laboas, Karish, AIMilah and AIMusaimer HFs.	Measles focal point was contacted and information was shared; Field investigation and blood samples were collected from the cases and will be sent to sana'a central Lab. For Lab. Confirmation.	5	0
Pertussis	Lahj	Laboas	laboas Hospital	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.	2	0
AVH	Lahj	RADFFAN	Radffan Hospital	eDEWS team contacted focal point, cases were diagnosed as AVH and treated appropriately. The cases after further invistigation were not collected in a cluster (from three different villages).	3	0
Measles	Aden	Al Mualla, Al-Mansura, Khor Maksar and Criater	Al-muala, AlWali, Khor Maksar and AlQateea HFs.	eDEWS team contact focal point, information shared. Blood sample were collected from 3 cases, and will be sent to sana'a central Lab. For Lab. Confirmation.	4	0
AVH	Aden	Al Mansura and AlShaikh Othman	Al-Wali and AlWahdah HFs.	The cases was diagnosed clinically in outpatient clinic using case definition, no full information about the cases was registered. The importance of registration of full information was discussed again.	7	0
Pneumonia	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	First case: A male child aged 4months from Al-memdara admitted to hospital on 12/11/2013 and diagnosed as Aspiration pnumonia (child born with clift palate). Child died on 13/11/2013. Second case: A male child aged 6months from Abyan admitted to hospital on 10/11/2013 with a diagnosis of Bronchiolitis. The child is a down syndrom with congenital heart disease. Died on 11/11/2013.	49	2
Pertussis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A visit was made to hospital, cases diagnosed clinically using case definision, antibiotics was given. The three cases were from two differen governorate.	3	0
OAD	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A male child aged 40days from Al-Tawahi admittted on 8/11/2013 with a diagnosis of sever acute malnutrition with sever deydration. Patient died on 9/11/2013 from complication of SAM.	144	1
Meningitis	Aden	Ash Shaikh Outhman	Al-Wahdah Hosp.	A visit was made to hospital, cases diagnosed by specialist and treated by antibiotics, CSF was collected from three cases (six cases from Aden came from four differen districts and a case from Abyan)	7	0
Measles	Abyan	Mudiyah and Zingibar	Mudiya and MCH HFs.	eDEWS team contact focal point, information shared, case was diagnosed according to cases definition, no blood samples were collected from the cases. eDEWS surveillance officer and eDEWS coordinator assistance explained the importance of blood sample collection for the patients.	2	0
DF	Abyan	Lawdar	Lawdar Hospital	The cases of dengue fever diagnosed clinically at the hospital using case definition, no samples were collected from the cases. The result of samples of DF on week 45 were negative.	4	0
DF	Taiz	Al Qahirah and AIMudhafar	26 September, Yemen International, AIMudhafar and AlTawon HFs.	Focal point contactedd , information shared , patients were diagnosed clincially only(Elisa test wasn't done) , importance of refferance pateints to Taiz national lab. for confirmation was diacussed .	21	0
Meningitis	Taiz	Al Qahirah	Sweden Hospital	Focal point contacted, information shared , samples were sent to the HF lab. With negative results (No growth) .	28	0
AVH	Taiz	Al Qahirah and AIMudhafar	Sweden and 22 May HFs.	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.	14	0
NNT	Taiz	Al Qahirah	Sweden Hospital	The suspected NNT case aged 15 days F child brought to hospital 6 days ago(from Mawiah) , not vaccinated . C/O fever convulsion and inability to breast feed(sucking) and oral fungal infection ,she was admitted into hospital , Antibotic and anticonvulsion drugs have been started(according to pateinds file no Anti-tetanus toxoid was given)	1	0
AFP	Taiz	Al Qahirah	Sweden Hospital	The suspected AFP case aged 8 years F child from Taiz city , vaccinated , brought to hospital C/O fever , cough , chest pain , left lower limb pain which developed to inability to walk ,she was admitted to hospital, treatment started (Acyclovir, imuunoglobuline and antipyretic) AFP coordinator was informed , he collected stool samples from patient and sent them to central surviellance lab. in Sanaa.	1	0
Schistosomiasis	Taiz	Salh	Army Hosp.	Focal point was contacted , samples were sent to the lab. , results are awaited.	6	0
Measles	Taiz	Salh	Army Hosp.	Focal point contacted, information shared, sample was collected , and sent to centrb. In Sanaa.	2	0
AVH	Amana	Assafia and AlWahdah	Al-Thwra and Cludia Fain HFs.	eDEWS team contact focal point, information shared, some cases were diagnosed clinically blood samples were collected . cases came from different districts and area The address of cases were not registered. A visit will be conducted to the hospital to have an on job training about the importance of data registration.	29	0
Measles	Amana	Assafia, Main and AlWahdah	Al-Thwra, Main and AlShaheed	eDEWS team contact focal point, information shared blood sample was collected from the cases and sent to Lab. for laba confirmation.	6	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.no lab confirmation	4	0
BD	Amana	Assafia, AlTahrir and Azal	Al-Thwra, AlKuwait, AlOlofi and Azal HFs.	eDEWS team contact focal point, information shared, cases came from different districts and area.diagnosid in OPD diffrernt pathogen and causes .	56	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 severral days ago daid in theER the cases came from different districts with low socio econmic level.	0	3
OAD	Amana	Assafia	Al-Thwra Modern Hosp	eDEWS team contact focal point, information shared the cases less than one year came from different districts cases died in ER	0	5
AFP	Amana	Assafia and Old City	Al-Thwra and Zubiri HFs.	eDEWS team contact focal point, information shared,stool sample was collected from the case and sent t. For Lab. Confirmation.case from lbb.caes aged 13y male and 8 y Male.	2	0
Pertussis	Amana	Assafia, Old City, AlSabeen, AlWahdah and Azal	Al-Thwra, Maen, AlSabeenTawhed HFs.	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	12	0
Pertussis	hajjah	haradh and Washhah	Haradh and Washhah HFs.	eDEWS team contact the focal point, cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patients.	3	
AFP	hajjah	Bani Qais	Bani Qais Health Center	eDEWS survillance officer contact the focal point, the case was a suspected AFP(katem husen abduh mal 3 yers old), survillance coordinator was informed, stool samples will be collecte and send to the central survillance center in Sana'a	1	
Schistosomiasis	hajjah	hajjah city	Al Jomhori Hospital	District cordinator contacted, information shared, Two cases from the same place was reigester in the last week, and three cases with incomplete data, the importance of detailed patients contact information was discussed again.	5	
Measles	hajjah	hajjah city	Al Jomhori Hospital	District coordinator was contacted,(3 cases frome al helah stret) samples collected and sent to the Central Lab in Sanaa.	3	
Measles	Hadramut	Alridh Qosear, AlMukalla and Dawan	Alridh, MCH, RepKep. And AlGoarah HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. After further investigation and follow up of patient, cases appeared to be german measles.	10	0
Pertussis	Hadramut	ash shaher, AlMukalla and Ghail Bawzir	ash shaher, Univirsity, MCH, AlGarh and Ghail Bawzir HFs.	eDEWS team contact focal point, the cases were diagnosed clinically using case definition. Antibiotic treatment was given to the patient.	7	0
AFP	Hodaidah	Zabid	Zabid Hosp.	eDEWS team contacted focal point, cases were suspected AFP , sample was collected from patient and their contact by district coordinator ,sent to central surveillance center	1	0
Measles	Hodaidah	Az Zaydiyah, AlDhahi and Jabal Ras	Az Zaydiyah, AlDhahi and 22May HFs.	eDEWS team contact focal point, information shared, Blood samples were collected from a cases and will be sent to sana'a central Lab. For Lab. Confirmation.	3	0
Meningitis	Hodaidah	Bajel	Bajel Hospital	eDEWS team contacted meningitis focal point, The cases diagnosed Clinically as meningitis and treatment was given.	3	0
DF	Hodaidah	Al Hali	AlSalakhanah Hosp.	Focal point contacted , information shared , patients were diagnosed Clinically only(Elisa test wasn't done) , importance of refer the pateints to Hodaidah national lab. for confirmation was discussed , importance of reporting patients contact information was discussed too.	7	0
Pertussis	Hodaidah	Zabid	Zabid Hosp.	eDEWS team contacted focal point, information shared, The case was diagnosed clinically using case definition by doctor (Ab-alhavid), and was treated appropriately.	1	0
NNT	Hodaidah	Jabal Ras	22 May Hosp.	eDEWS team contacted focal point. The case diagnosed as NNT by using case difination and treated appropriately.	1	0
Pertussis	Ibb	Aldehar and AlQafr	Dar AlShifa and Rihab HFs.	Focal point contacted, case was diagnosed clinically , No information.	4	0
Schistosomiasis	Ibb	Aldehar and AlSabrah	Dar AlShifaand Nagd HFs.	Focal point contacted, information shared , samples sent to lab. , results are awaited	36	0
AVH	Ibb	AlDhehar, Alqafr, AlUdain and AlMashanah	Dar AlShifa, Rihab, AUdain and MCH HFs .	Focal point contacted, information shared , samples sent to lab. , results are awaited	17	0
Measles	Ibb	Yarim, AlUdain, Jiblah, AlMashanah and AlDhehar	Yarim, AlUdain, Jiblah, Naser, AlNor and AlKhnsa HFs .	Focal point contacted, information shared, samples were collected , and sent to the centrla lab. In Sanaa.	8	0
AVH	Ibb	Almashannah	MCH Almashannah	Focal point contacted, information shared , samples sent to lab. , results is awaited	6	0
Measles	Sa'da	Saada, Saqayn, AlHashwah, Ghamr, Majz, Monabeh, Qataber and Razeh	Dr. Mosfer, Saqayn, Fawt, Noman, Ghamer, Majz, Dhahian, Monabeh, AlButain, Qataber and Razih HFs.	eDEWS team contact focal point, information shared, No blood samples were collected from the cases.	25	0
Pertussis	Sa'da	saada, Sahar and Majz	Dr. Mosfer, AlMehther and Majz HFs.	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.	8	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.

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.
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