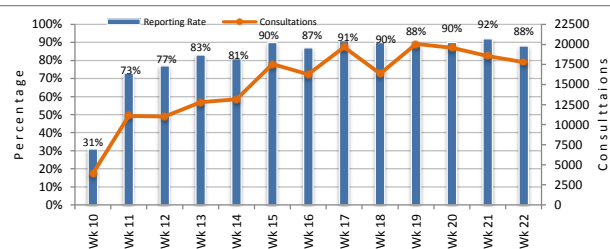


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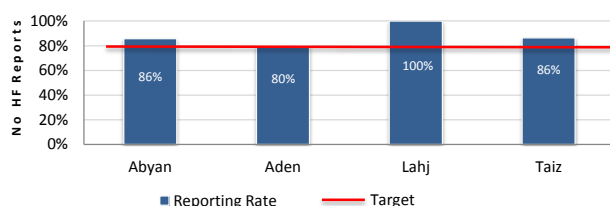
Highlights

- During week no 22, 2013; 88% (82/93) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 17805 compared to 18573 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 49 alerts were generated by eDEWS system in week 22, 2013; Of these, 46 alerts were verified as true for further investigations with appropriate response.
- Altogether 22 alerts for Measles, 9 Pertussis, 4 AVH, 3 Dengue Fever, 2 each for Meningitis and C. Leishmaniasis, and 1 each for Acute Flaccid Paralysis, NNT, BD and Schistosomiasis were received and responded.
- Online disease surveillance and response system was launched in 4 governorates (Aden, Abyan, Lahj and Taiz) in March 2013. Ongoing on site trainings to improve weekly reporting and immediate notification are underway in all 4 pilot governorates.

eDEWS Reporting Rates vs Consultations in Pilot Governorates, Epi weeks 10 to 22, 2013



Distribution of Reporting Rates by Governorates (Epi-week 22, 2013)



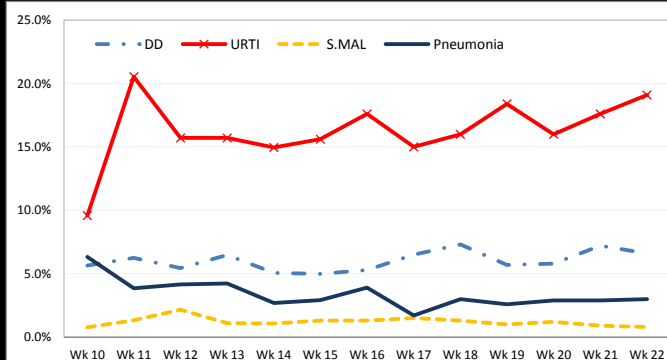
Leading Priority Diseases - Pilot Governorates (Epi-week 22, 2013)

- URTI (19.1%), suspected malaria (0.8%), OAD (6.3%) and Pneumonia (3%) remain the leading causes of morbidity representing a total of 29.2%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.3% of this morbidity.
- All diarrheal disease comprised 6.6% and Pneumonia 3% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.44% and Pneumonia 1.67% of total morbidity in the <5 years age group.

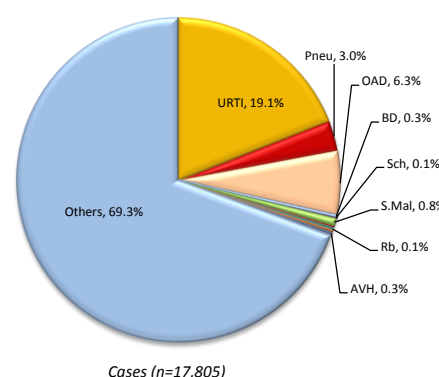
32 districts from 4 Governorates reported to eDEWS in week 22, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 22, 2013

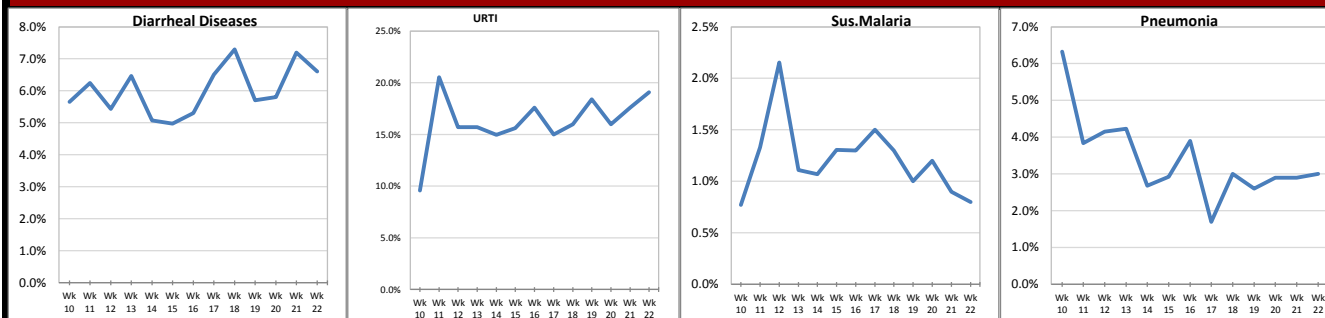


Proportional Morbidity for Leading Priority Diseases - Epiweek 22, 2013

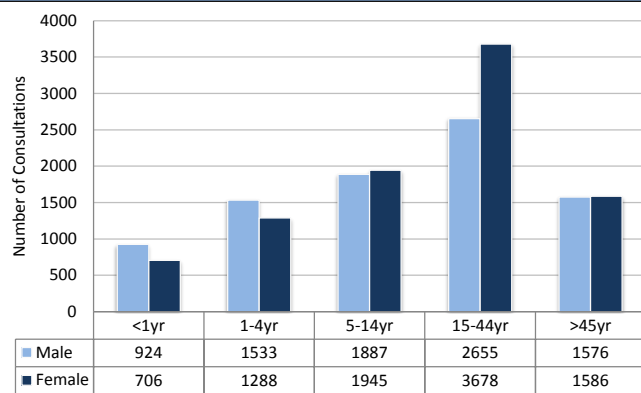


URT=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb= Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 22, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 22, 2013)



Cumulative number of major health events reported in Epi-weeks 10 to 22, 2013 (1st March 2013 to 24th May 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	32995	16.7%
Diarrheal Diseases	11992	6.1%
Suspected Malaria	2378	1.2%
Pneumonia	6163	3.1%
Others	144353	72.9%
Total (All consultations)	197881	100%

Leading Diseases by Governorate, Epiweek 22

- URTI was highest in Governorate Aden (28.84%) this week.
- Diarrheal Disease was highest in Governorate Taiz (7.2%) this week.

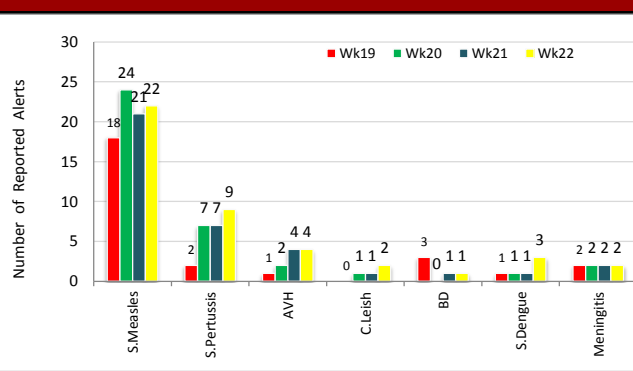
Distribution of consultations of leading diseases by Governorates, Epiweek 22

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	443	1811	464	674	3392
Pneumonia	126	150	105	155	536
Other Acute Diarrhea	230	375	85	433	1123
Bloody Diarrhea	14	14	0	23	51
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	1	0	0	8	9
Malaria	39	58	15	23	135
Meningitis	1	1	0	27	29
Dengue Fever	6	7	0	6	19
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	1	1	0	21	23
Measles	18	17	3	6	44
Acute Viral Hepatitis (A & E)	9	3	0	33	45
Neonatal Tetanus	0	0	0	1	1
Acute Flaccid Paralysis	0	1	0	0	1
Cutaneous Leishmaniasis	1	0	0	1	2
Diphtheria	0	0	0	0	0
Pertussis	8	3	9	2	22
OtherUn	1	4	24	0	29
Other Consultations	2568	3838	1017	4921	12344
Total Consultations	3466	6283	1722	6334	17805

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 22, 2013		System Gen. Alerts (week 22)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	66	1	9	0	9	0
Measles	224	0	22	0	22	0
AFP	8	0	1	0	1	0
Schistosomiasis	3	0	1	0	1	0
Bloody Diarrhie	9	0	1	0	1	3
AVH	32	2	4	0	4	0
Denque fever	13	0	3	0	3	0
Meningitis	15	0	2	0	2	0
CL	16	0	2	0	2	0
NNT	3	0	1	0	1	0
OAD	1	0	0	0	0	0
VHF	0	0	0	0	0	0
Pneumonia	2	0	0	0	0	0
Toatl	392	3	46	0	46	3

Number of Alerts Received and Responded (Epiweeks 19 and 22, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3466 patients consultations in week 22, 2013. Total 17 alerts were reported and appropriate measures were taken in week 22, 2013. Altogether 7 alerts for Measles, 5 Pertussis, and 1 each for AVH, Bloody Diarrhea, Dengue Fever, C. Leishmaniasis and Meningitis were reported and responded.

Aden Governorate

20 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6283 patients consultations in week 22, 2013. Total 11 alerts were reported and appropriate measures were taken in week 22, 2013. Altogether 8 alerts for Measles and 1 each for Pertussis, Acute Flaccid Paralysis and Dengue Fever were reported and responded.

Abyan Governorate

18 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 1722 patients consultations in week 22, 2013. Total 5 alerts were reported and appropriate measures were taken in week 22, 2013. Altogether 3 alerts for Measles and 1 alert for Pertussis were reported and responded.

Taiz Governorate

19 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 6334 patients consultations in week 22, 2013. Total 13 alerts were reported and appropriate measures were taken in week 22, 2013. Altogether 4 alerts for Measles, 3 AVH and 1 each for Meningitis, C. Leishmaniasis, Dengue Fever, Pertussis, Schistosomiasis and NNT were reported and responded.

Alert/Outbreaks Responded in Epi-week 22, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Pertussis	Aden	Al-Shiakh Othman	Al-Wahdah Hosp.	Three cases from different district visited HF and diagnosed as suspected cases of pertussis by paediatrician. All cases were vaccinated, No sample was collected.	3	0
AFP	Aden	Al-Shiakh Othman	Al-Wahdah Hosp.	The case diagnosed in accordance with case definition, AFP focal point was notified, Sample was collected and sent to sana'a central Lab. For Lab. Confirmation.	1	0
Measles	Aden	Al-Mansoura, Al-Burika, Al-Tawahi, Al-Mualla, Cralter and Khor Makser	Hashed, Al-Wali, Beer Ahmed, Al-Shaeeb, Al-Tawahi, Al-Mualla, Al-Qateea and Khor Makser HFs.	eDEWS team contacted focal point, cases were diagnosed clinically using case definition, No blood samples were collected	15	0
DF	Aden	Al-Mansoura	Al-wali Hosp	eDEWS team contacted focal point, cases were diagnosed clinically using case definition, No blood samples were collected and the address of cases were not available for further, importance of recording complete information was shared.	3	0
Measles	Abyan	Mudiyah, Zingibar and Khanfer	Mudiyah, MCH and Al-Razi HFs.	Measles focal point was contacted and information was shared; No blood samples were collected.	6	0
Pertussis	Abyan	Zingibar and Khanfer	MCH Zingibar and Al-Razi Hospital	eDEWS team has planned with SC to visit the HF for further investigations and appropriate response. No blood samples were collected.	9	0
AVH	Taiz	Al-Mudafar and Al-Qahirah	Al-Hikma, Al-Sweden and Al-Tawon Hospitals	District coordinator contacted, information shared, sample was collected and sent to lab. Results are awaited	27	0
Pertussis	Taiz	Al-Qahirah	Al-Sweden	The suspected Pertussis cases brought to the hospital C/O fever, cough followed by vomiting. No contact information was available, the importance of detailed contact information was discussed again.	2	0
Measles	Taiz	Al-Qahirah and Salah	Al-Sweden, 26 sep., Al-Tawon and Al-Safwah HFs.	District coordinator was contacted, information shared, Blood samples were collected and sent to sana'a central Lab. For Lab. Confirmation.	5	0
Meningitis	Taiz	Al-Qahirah	Al-Sweden	District coordinator was contacted, information shared, Blood samples were collected and sent to lab. For Lab. Confirmation, results are awaited	24	0
Pertussis	Lahj	Laboas	Laboas Hospital	SC has planned to visit the HF for further investigations and appropriate response.	8	0
Measles	Lahj	Radfan, Tuban, Yahar and Al-Hawtatah	Radfan, Al-Qashaa, Al-What, Yahar, Al-Anad, Ibn Khaldoon and MCH HFs.	Measles focal point was contacted and information was shared; Field investigation done, Samples were collected and sent to central Lab. Sana'a for Lab. confirmation.	18	0
AVH	Lahj	Radfan	Radfan Hospital	cases diagnosed by case definition and treated, no samples collected.	3	0
DF	Lahj	Tuban	Sabar HC	District coordinator contacted, information shared, sample was collected and sent to central Lab. Sana'a for Lab. confirmation.	4	0
Meningitis	Lahj	Al-Musimeer	Al-Musimeer Hospital	The death case was a 3 months old male child admitted to the hospital on 28/5/2013 c/o Convulsion, High Fever, Cyanosis and refused sucking and diagnosed as suspected meningitis by physician. The patient died on the same day. No sample was collected for confirmation.	0	1

The objective of this weekly epidemiological bulletin is to provide a snap shot on selected health events reported from the eDEWS surveillance system in four governorates (Aden, Abyan, Lahj and Taiz) 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.