World Health Organization

Weekly Epidemiological Bulletin

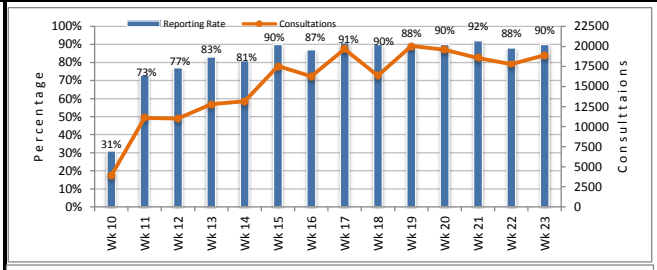
Electronic Disease Early Warning and Response System

Volume 01, Issue 13, Epi week 23, 31 May - 6 June 2013

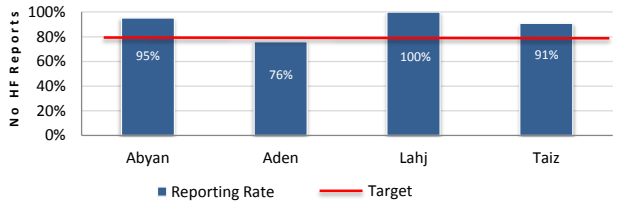
Highlights

- During week no 23, 2013; 90% (84/93) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 18901 compared to 17805 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 46 alerts were generated by eDEWS system in week 23, 2013; Of these, 40 alerts were verified as true for further investigations with appropriate response.
- Altogether 18 alerts for Measles, 10 Pertussis, 4 AVH, 2 each for Dengue Fever and C. Leishmanaisis, and 1 each for Meningitis, Acute Flaccid Paralysis and VHF 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 23, 2013



Distribution of Reporting Rates by Governorates (Epi-week 23, 2013)

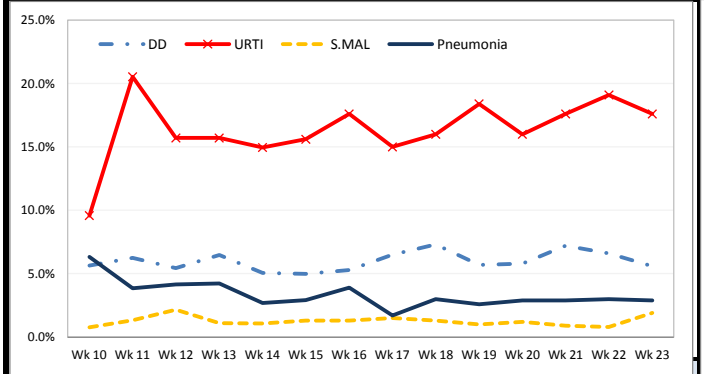


Leading Priority Diseases - Pilot Governorates (Epi-week 23, 2013)

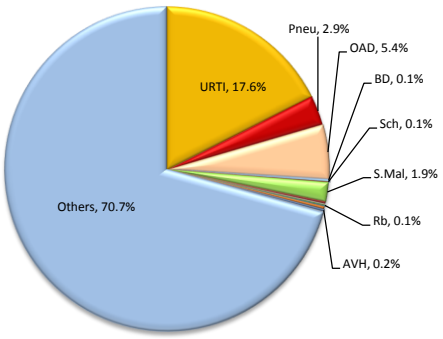
- URTI (17.6%), suspected malaria (1.9%), OAD (5.4%) and Pneumonia (2.9%) remain the leading causes of morbidity representing a total of 27.8%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.1% of this morbidity.
- All diarrheal disease comprised 5.6% and Pneumonia 2.9% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 3.09% and Pneumonia 1.76% of total morbidity in the <5 years age group.

32 districts from 4 Governorates reported to eDEWS in week 23, 2013

Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 23, 2013



Proportional Morbidity for Leading Priority Diseases - Epiweek 23, 2013



Cases (n=18,901)

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

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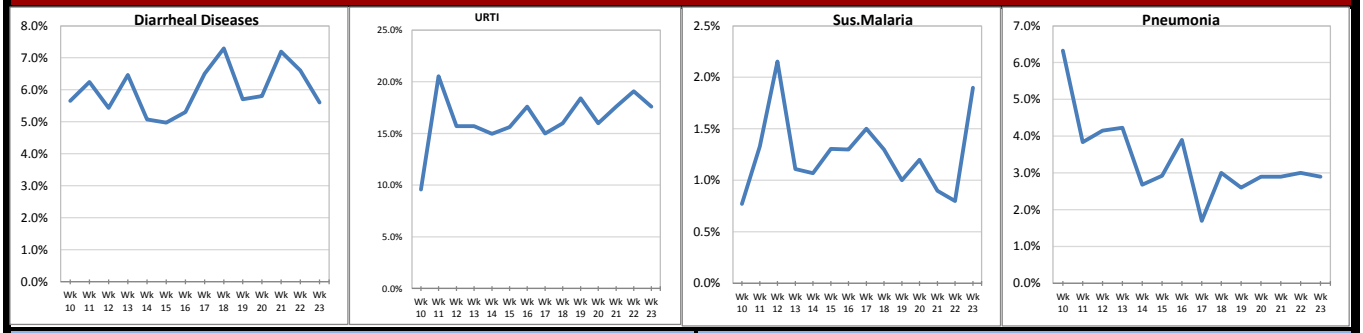
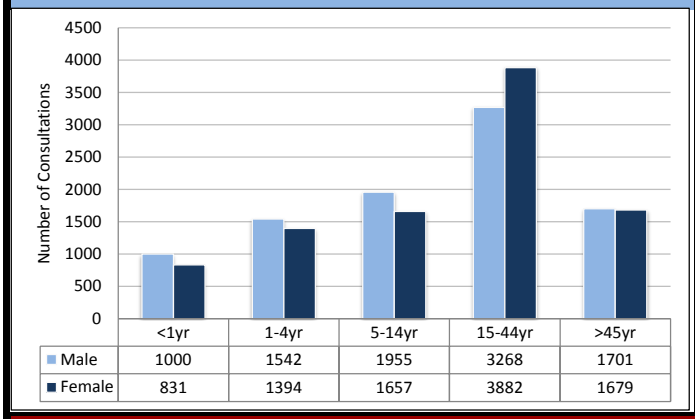
Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 23, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 23, 2013)



	<1yr	1-4yr	5-14yr	15-44yr	>45yr
Male	1000	1542	1955	3268	1701
Female	831	1394	1657	3882	1679

Cumulative number of major health events reported in Epi-weeks 10 to 23, 2013 (1st March 2013 to 6th May 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	36326	16.8%
Diarrheal Diseases	13048	6.0%
Suspected Malaria	2744	1.3%
Pneumonia	6716	3.1%
Others	157956	72.9%
Total (All consultations)	**216790**	**100%**

Leading Diseases by Governorate, Epiweek 23

- URTI was highest in Governorate Abyan (28.4%) this week.
- Diarrheal Disease was highest in Governorate Aden (6.38%) this week.

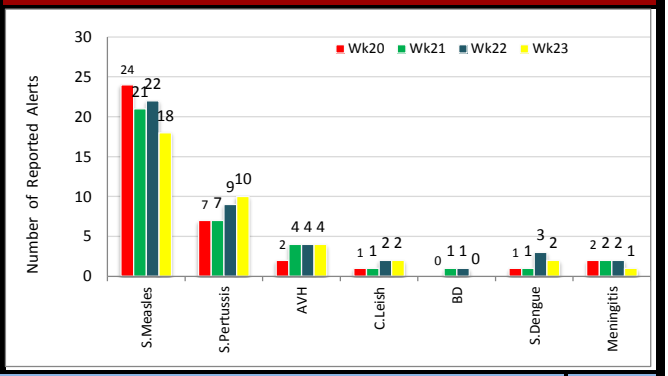
Distribution of consultations of leading diseases by Governorates, Epiweek 23

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	391	1794	459	687	3331
Pneumonia	127	177	98	151	553
Other Acute Diarrhea	199	423	62	344	1028
Bloody Diarrhea	1	7	6	14	28
Acute Watery Diarrhea	0	0	0	0	0
Schistosomiasis	7	1	3	8	19
Malaria	44	266	18	38	366
Meningitis	0	8	0	33	41
Dengue Fever	7	4	1	8	20
Viral Hemorrhagic Fever	0	1	0	0	1
Rabies	0	0	0	18	18
Measles	10	21	5	25	61
Acute Viral Hepatitis (A & E)	4	14	0	29	47
Neonatal Tetanus	0	0	0	1	1
Acute Flaccid Paralysis	0	3	0	1	4
Cutaneous Leishmaniasis	0	0	0	2	2
Diphtheria	0	0	0	0	0
Pertussis	4	5	4	2	15
OtherUn	0	0	0	0	0
Other Consultations	2631	4017	960	5758	13366
Total Consultations	**3425**	**6741**	**1616**	**7119**	**18901**

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 23, 2013		System Gen. Alerts (week 23)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	76	1	10	0	10	0
Measles	242	0	18	0	18	0
AFP	9	0	1	0	1	1
Schistosomiasis	3	0	0	0	0	0
Bloody Diarrhie	9	0	0	0	0	4
AVH	36	2	4	0	4	1
Denque fever	15	0	2	0	2	0
Meningitis	16	0	1	0	1	0
CL	18	0	2	0	2	0
NNT	3	0	0	0	0	0
Malaria	1	0	1	0	1	0
VHF	1	0	1	0	1	0
Pneumonia	2	0	0	0	0	0
Total	431	3	40	0	40	6

Number of Alerts Received and Responded (Epiweeks 20 and 23, 2013)



Lahj Governorate

25 health facilities from 13 districts in Lahj governorate reported to eDEWS with a total of 3425 patients consultations in week 23, 2013. Total 10 alerts were reported and appropriate measures were taken in week 23, 2013. Altogether 4 alerts each for Measles and Pertussis, and 1 each for AVH and Dengue Fever were reported and responded.

Aden Governorate

19 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6741 patients consultations in week 23, 2013. Total 16 alerts were reported and appropriate measures were taken in week 23, 2013. Altogether 4 alerts for Pertussis, 2 Measles and 1 each for Acute Flaccid Paralysis, VHF and Meningitis were reported and responded.

Abyan Governorate

20 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 1616 patients consultations in week 23, 2013. Total 5 alerts were reported and appropriate measures were taken in week 23, 2013. Altogether 3 alerts for Measles and 2 Pertussis were reported and responded.

Taiz Governorate

20 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 7119 patients consultations in week 23, 2013. Total 9 alerts were reported and appropriate measures were taken in week 23, 2013. Altogether 3 alerts each for Measles and AVH, 2 C. Leishmaniasis and 1 for Dengue Fever were reported and responded.

Alert/Outbreaks Responded in Epi-week 23, 2013

Suspected Disease	Governorate	District	HFs	Actions Taken / Notes	Cases	Deaths
Pertussis	Lahj	Al-Had, Al-Qabyatah and Al-Hawtah	Al-Had, Radfan, Karish and Ibn Khaldoon HFs	SC has planned to visit the HF for further investigations and appropriate response.	4	0
Measles	Lahj	Radfan, Tuban, Yahar and Al-Hawtah	Radfan, Al-What, Yahar and Ibn Khaldoon 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.	4	0
DF	Lahj	Tuban	Sabar HC	District cordinator contacted, information shared, sample was collected and sent to lab. , results are awaited.	6	0
Pertussis	Aden	Al-Mansoura,Al-Shiakh Othman, Creatir, Khor-Makser,	22 May Hospital, Al-Wahdah Hospital, Al-Shaab Charitable, Khor-Makser Pol.	eDEWS team contacted focal point, cases were diagnosed clinically using case definition, No blood samples were collected. Antibiotic treatment was given to the patients.	5	0
Meningitis	Aden	Al-Shiakh Othman	Al-Wahdah Hosp.	eDEWS team contact focal point, information shared, Blood samples were collected and sent to lab. For Lab. Confirmation, results are awaited	4	0
Measles	Aden	Al-Shiakh Othman, Al-Mansoura, Al-Mualla, Creatir, Khor-Makser	Al-Wahdah Hosp., Hashed Pol, Saber Hosp, Al-Wali Hospital, Al-Mualla Pol., Al-Qateea Pol., Al-Maidan, Khor-Makser Pol.	eDEWS team contact focal point, information shared, Blood samples were collected and sent to sana'a central Lab. For Lab. Confirmation.	21	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.	2	0
AFP	Aden	Al-Mansoura	Al-Wali	Case diagnosed as Gillian Barre syndrom	1	0
VHF	Aden	Al-Shiakh Othman	Al-Wali	eDEWS team contact focal point, information shared, sample was collected and sent to central Lab. Sana'a for Lab. confirmation.	1	0
AVH	Aden	Al-Buriqa	Al-Shaab Pol.	Cases diagnosed by case definition, No samples was taken for confirmation. There is no clustering of cases	4	0
Pertussis	Abyan	Lowder, Zingibar	Al-Ain HU, MCH Zingibar	eDEWS team contacted focal point, cases were diagnosed clinically using case definition, No blood samples were collected and treated appropriately.	4	0
Measles	Abyan	Zingibar,Khanfir	MCH Zingibar, Al-Razi Hosp., Gaar HU	eDEWS team contact focal point, information shared, NO blood samples were collected and sent to sana'a central Lab. For Lab. Confirmation untill know.	5	0
CL	Taiz	Al-Muka, Al-Qahira	Al-Mukah Hosp, Al-Tawon Hosp	District cordinator contacted, information shared, sample was collected and sent to lab. Results are awaited	2	0
DF	Taiz	Al-Mudafar	Al-Mudafar Hosp, Al-Hikma	District cordinator contacted, information shared, sample was collected and sent to Lab . Results are awaited.	8	0
AVH	Taiz	Al-Mudafar,Al-Qahira	22May Al-Mudafer , Al-Hikma , Sweeden Hosp.	District cordinator contacted, information shared, sample was collected and sent to Lab . Results are awaited , for Sweeden Hosp (District coordinator was not avilable on visit)	20	0
Measles	Taiz	Al-Qahirah	Al-Sweden, 26-Sep, Al-Rawda Hosp.	District cordinator contacted, information shared, sample was collected and sent to central lab. In Sanaa ,Result is awaited	25	0
Malaria	Aden	Al-Shaikh Othman	Al-Wahda Hospital	eDEWS team visit the hospital, the case was came from Abyan complaining of high grade fever for several days, admitted to hospital with a diagnosis of complicated malaria, treatment started but the patien died.	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 desease, to facilitate a rapid public health response.

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