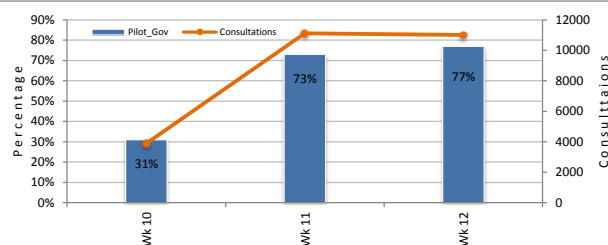


Volume 01, Issue 2, Epi week 12, 15 March - 21 March 2013

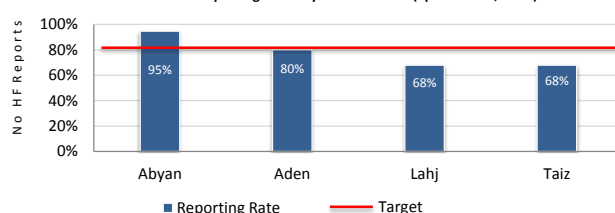
Highlights

- During week no 12, 2013; 77% (72/94) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 11001 compared to 11104 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 37 alerts were generated by eDEWS system in week 12, 2013; Of these, 29 alerts were verified as true for further investigations with appropriate response.
- Altogether 1 death alert of OAD and 18 alerts of Measles, 2 Pertussis, 2 AFP, 2 BD, and 1 each for AVH, DF, CL, OAD and Schistosomiasis alerts were received and responded. In total, 101 people were affected.
- 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 12, 2013



Distribution of Reporting Rates by Governorates (Epi-week 12, 2013)



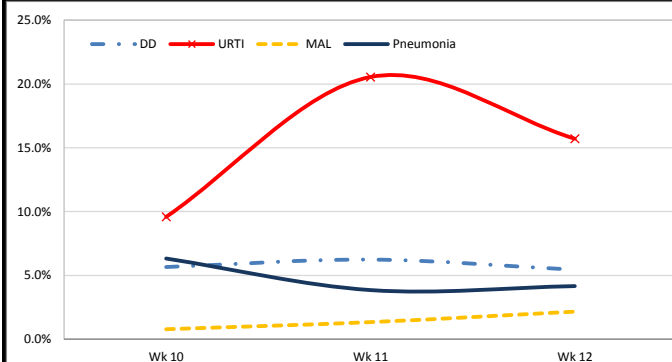
Leading Priority Diseases - Pilot Governorates (Epi-week 12, 2013)

- URTI (15.8%), suspected malaria (2.2%), OAD (4.7%) and Pneumonia (4.2%) remain the leading causes of morbidity representing a total of 26.9%.
- 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 5.4% and Pneumonia 4.2% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 2.5% and Pneumonia 2.04% of total morbidity in the <5 years age group.

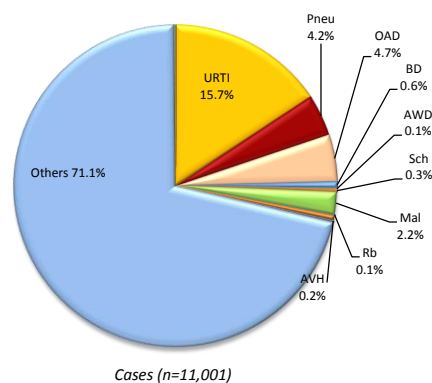
eDEWS Pilot Project Coverage Map - Yemen



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 12, 2013

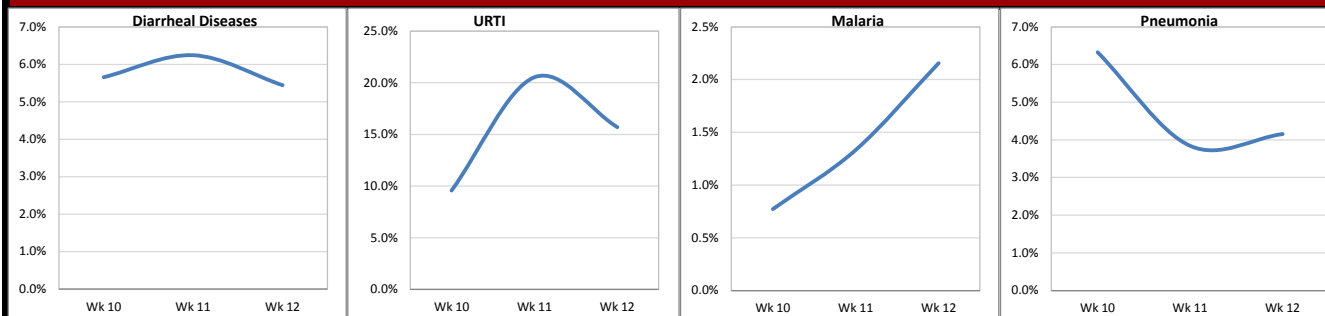


Proportional Morbidity for Leading Priority Diseases - Epiweek 12, 2013

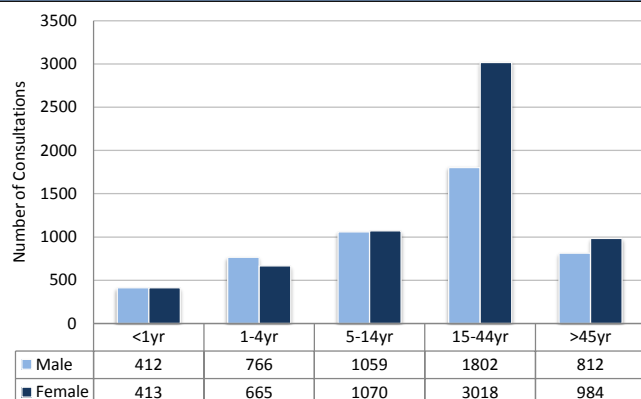


URTI=Upper respiratory infections; Pneu=Pneumonia; OAD=Other acute diarrhea; BD= Bloody diarrhea; AWD=Acute Watery Diarrhea; Sch=Schistosomiasis; Mal=Malaria; Rb=Rabies; AVH=Acute viral hepatitis; Meng=Meningitis; DF=Dengue fever; VHF=Viral hemorrhagic fever; Meas=Measles; CL=Cutaneous Leishmaniasis;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

Weekly trends of Diarrheal Diseases, Upper Respiratory infections, Suspected Malaria and Pneumonia (Epi week 10 to 12, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 12, 2012)



Cumulative number of major health events reported in Epi-weeks 10 to 12, 2013 (1st March 2013 to 21th March 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	4371	16.8%
Diarrheal Diseases	1501	5.8%
Suspected Malaria	417	1.6%
Pneumonia	1134	4.3%
Total (All consultations)	26091	100%

Leading Diseases by Governorate, Epiweek 12

- URTI was highest in Governorate Abyan (31.1%) this week.
- Diarrheal Disease was highest in Governorate Abyan (6.7%) this week.

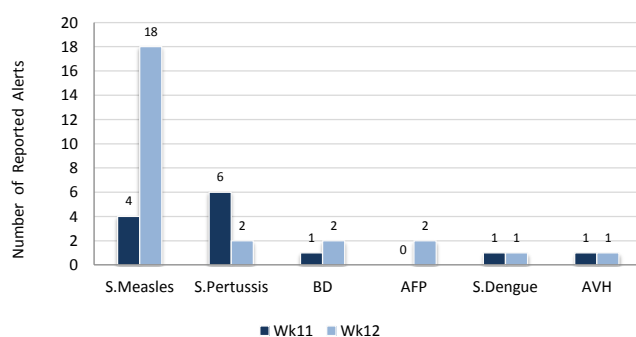
Distribution of consultations of leading diseases by Governorates, Epiweek 12

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	124	686	531	387	1728
Pneumonia	52	181	78	146	457
Other Acute Diarrhea	53	195	108	159	515
Bloody Diarrhea	5	8	7	46	66
Acute Watery Diarrhea	0	0	0	10	10
Schistosomiasis	0	1	3	29	33
Malaria	6	162	53	16	237
Meningitis	0	0	0	1	1
Dengue Fever	0	2	0	2	4
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	1	0	0	5	6
Measles	11	42	3	1	57
Acute Viral Hepatitis (A & E)	8	10	2	1	21
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	0	1	1	0	2
Cutaneous Leishmaniasis	0	0	1	0	1
Diphtheria	0	0	0	0	0
Pertussis	3	1	0	1	5
Other Consultations	1342	3028	961	2527	7858
Total Consultations	1605	4317	1748	3331	11001

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 12, 2013		System Gen. Alerts (week 12)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	0
Pertussis	11	0	2	0	2	1
Measles	26	0	18	0	18	1
AFP	2	0	2	0	2	0
Bloody Diarrhea	3	0	2	0	2	5
AVH	2	0	1	0	1	0
Dengue Fever	2	0	1	0	1	0
Meningitis	2	0	0	0	0	0
Cut. Leishmaniasis	1	0	1	0	1	0
Rabies	1	0	1	0	0	1
Other Acute Diarrhea	1	0	1	0	1	0
Shistosomiasis	1	0	1	0	1	0
Total	52	0	30	0	29	8

Number of Alerts Received and Responded (Epiweeks 11 and 12, 2013)



Lahj Governorate

23 health facilities from 5 districts in Lahj governorate reported to eDEWS with a total of 1,605 patients consultations in week 12, 2013. Total 7 alerts were reported and appropriate measures were taken in week 12, 2013. Altogether 2 alerts were for Measles; 2 for Bloody Diarrhea; while 1 each for Pertussis, OAD and AVH.

Aden Governorate

20 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 4,317 patients consultations in week 12, 2013. Total 15 alerts reported and appropriate measures were taken in week 12, 2013. Altogether 13 alerts were for Measles; while 1 each for AFP and Dengue Fever.

Abyan Governorate

18 health facilities from 2 districts in Abyan governorate reported to eDEWS with a total of 1,748 patients consultations in week 12, 2013. Total 3 alerts reported and appropriate measures were taken in week 12, 2013. Altogether 1 alert each for Measles, cutaneous Leishmaniasis and AFP was reported.

Taiz Governorate

17 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 3,331 patients consultations in week 12, 2013. Total 4 alerts reported and appropriate measures were taken in week 12, 2013. Altogether 2 alerts were for Measles; while 1 each for Pertussis and Schistosomiasis.

Alert/Outbreaks Responded in Epi-week 12, 2013

Suspected Disease	Province	District	Location	Actions Taken / Notes	Cases	Deaths
Measles	Lahj	Tuban	Village Al-Feyoush	Lahj Surveillance Coordinator confirmed cases. Measles focal point was contacted and information was shared; Field investigation done, samples were collected and sent to sana'a central lab. DG Lahj was informed and follow up of cases and campaign has been planned	10	0
Measles	Lahj	Radfan	Radfan	Lahj Surveillance Coordinator confirmed cases. Measles focal point was contacted and information was shared; Field investigation done, samples were collected and sent to sana'a central lab.	1	0
Pertussis	Lahj	Radfan	Radfan	Lahj Surveillance Coordinator confirmed cases. Follow up visit has been planned for further investigations.	3	0
Bloody Diarrhea	Lahj	Al-Qabbayta	Diash Village	Alert was verified as bloody diarrhea, all cases attended health facility and treated with antibiotics.	4	0
Bloody Diarrhea	Lahj	Al-Qabbayta	Al-Ramah Village	Alert was verified as bloody diarrhea, all cases attended health facility and treated with antibiotics.	4	0
AFP	Abyan	Khunfar	Khunfar	eDEWs surveillance officer contact with health personnel in hospital, stool samples were taken for investigation (A 10 yr old female, from almhras suspected AFP case identified, stool specimen has been collected for lab investigation.	1	0
Cut Leshmaniasis	Abyan	Khunfar	khunfar	Case was not from endemic area, case was diagnosed clinically meeting the case definition, with an induration on the forearm for 2 months now, follow up of the patient is underway by the health personnel.	1	0
Measles	Abyan	Khunfar	Khunfar	Contact with focal point, cases are diagnosed clinically ONLY with (fever and generalized skin rash), Other cases with similar skin rash didn't meet the case definition	2	0
Measles	Aden	Almansoor	Almansoor	Assistant Surveillance Coordinator Aden informed that the cases were confirmed as Rubella from the same area previously. No further samples were taken for this alert.	1	0
Dengue Fever	Aden	Almansoor	seera	Only one case was diagnosed as suspected dengue clinically. Further investigations underway	2	0
AFP	Aden	seera	seera	the case is a 13 year old male from seera, stool specimen is taken and sent for investigation	1	0
Measles	Taiz	Salah	Sharaab	Upon investigation by district coordinator, it was found that the patient (4 yr baby boy) attended HF from rural area, was not vaccinated, had a history of fever, rash and cough. Contact information of the case was not recorded for followup of cases in the area. Importance of registration of such cases was discussed with healthcare providers.	1	0
Measles	Taiz	Alqahira	Alqahira	District coordinator was contacted, information shared, samples were collected and sent to central lab in Sana'a.	5	0
Pertussis	Taiz	Alqahira	Alqahira	District coordinator was contacted, he informed us that one pt a 14 months baby girl from Shameer village was vaccinated, whereas other pt 6 month baby boy from Samaa village was not vaccinated. Both cases visited hospital with typical signs and symptoms of Pertussis, they had routine investigation (W.B.C, Chest x ray), patients were isolated and already had antibiotic, they are still in the hospital. Follow up has been planned.	2	0
Schistosomiasis	Taiz	Almudafar	Almudafar	District coordinator contacted, samples were sent to lab and the results are awaited.	19	0
Other Acute Diarrhea	Lahj	Al-Hawtah	Al-Hawtah City	Investigations ongoing	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.

This weekly Epidemiological bulletin is published jointly by the Ministry of Public Health & Population and World Health Organization (WHO), WHO/EHA office, Sana'a, Yemen.

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