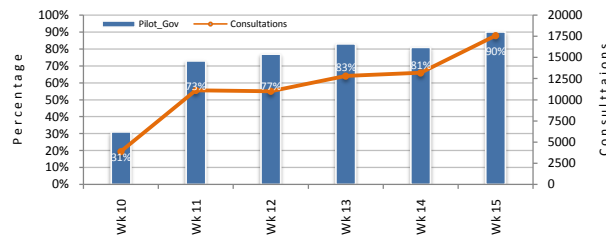


Volume 01, Issue 5, Epi week 15, 05 April - 11 April 2013

Highlights

- During week no 15, 2013; 90% (85/94) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 17559 compared to 13170 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 42 alerts were generated by eDEWS system in week 15, 2013; Of these, 30 alerts were verified as true for further investigations with appropriate response.
- Altogether 14 alerts of Measles, 7 Pertussis, 3 each for Cut.Leishmaniasis and AVH, and 1 each for Meningitis, Dengue Fever and BD were received and responded. In total, 134 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 15, 2013



Distribution of Reporting Rates by Governorates (Epi-week 15, 2013)



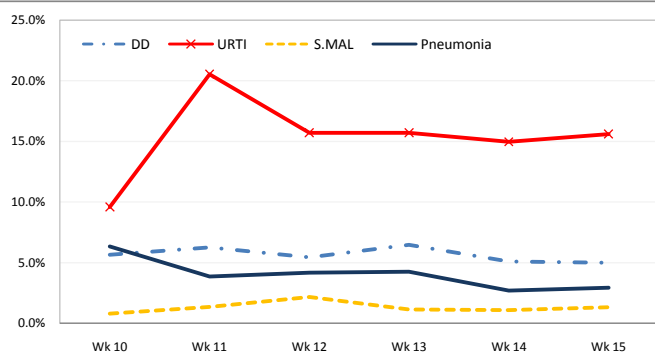
Leading Priority Diseases - Pilot Governorates (Epi-week 15, 2013)

- URTI (15.6%), suspected malaria (1.3%), OAD (4.7%) and Pneumonia (2.9%) remain the leading causes of morbidity representing a total of 24.5%.
- Acute viral hepatitis, acute watery diarrhea and Schistosomiasis represented less than 1% of total morbidity in reporting period. Bloody diarrhea represented 0.2% of this morbidity.
- All diarrheal disease comprised 5% and Pneumonia 2.9% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 2.71% and Pneumonia 1.79% of total morbidity in the <5 years age group.

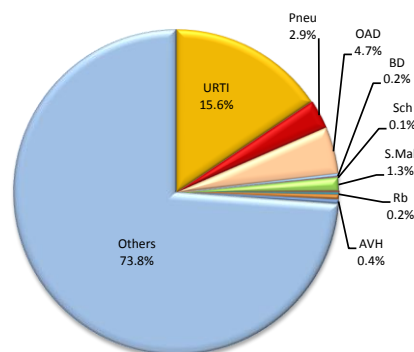
30 districts from 4 Governorates reported to eDEWS in week 15, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 15, 2013



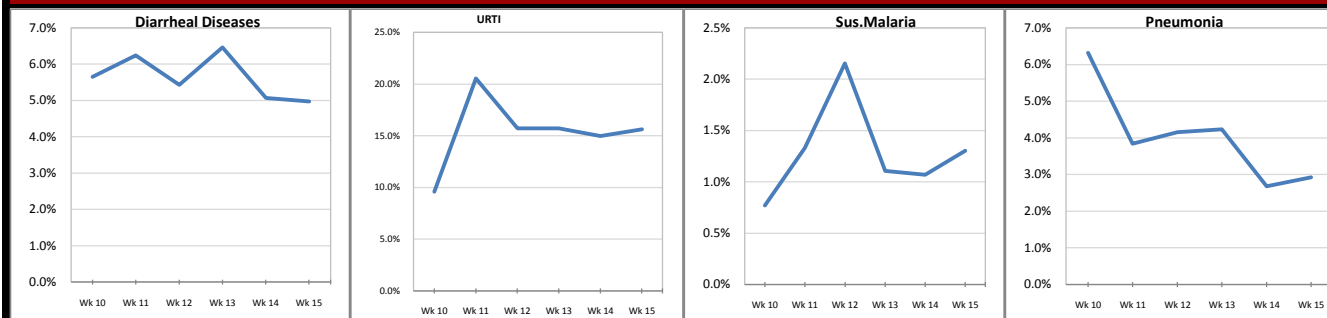
Proportional Morbidity for Leading Priority Diseases - Epiweek 15, 2013



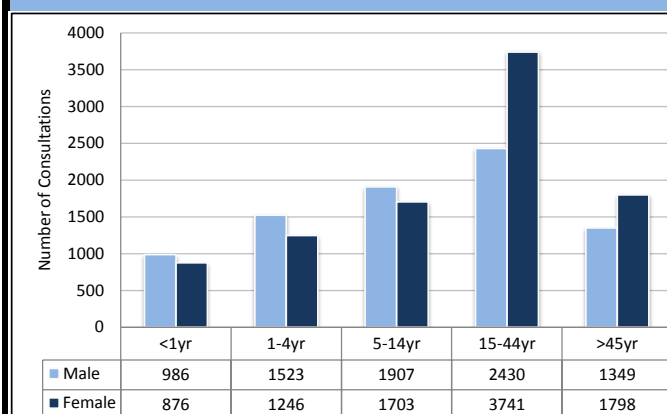
Cases (n=17,559)

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 15, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 15, 2012)



Cumulative number of major health events reported in Epi-weeks 10 to 15, 2013 (1st March 2013 to 11th April 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	11092	15.9%
Diarrheal Diseases	3871	5.6%
Suspected Malaria	929	1.3%
Pneumonia	2543	3.7%
Total (All consultations)	69626	100%

Leading Diseases by Governorate, Epiweek 15

- URTI was highest in Governorate Abyan (24.1%) this week.
- Diarrheal Disease was highest in Governorate Aden (6.7%) this week.

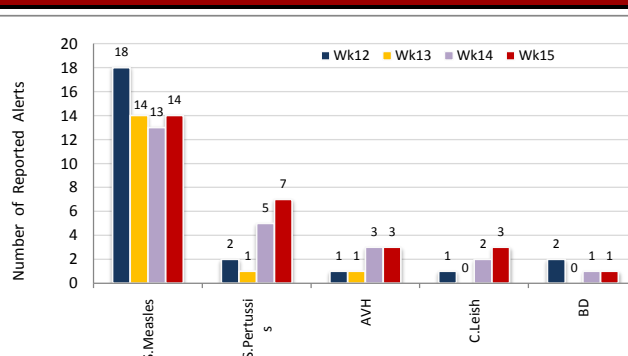
Distribution of consultations of leading diseases by Governorates, Epiweek 15

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	352	1408	455	525	2740
Pneumonia	84	231	106	93	514
Other Acute Diarrhea	109	461	65	197	832
Bloody Diarrhea	7	3	9	19	38
Acute Watery Diarrhea	0	0	0	4	4
Schistosomiasis	0	0	0	9	9
Malaria	27	149	27	26	229
Meningitis	1	4	0	22	27
Dengue Fever	0	2	0	3	5
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	1	0	0	36	37
Measles	23	37	1	11	72
Acute Viral Hepatitis (A & E)	4	17	2	49	72
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	0	0	0	0	0
Cutaneous Leishmaniasis	1	0	1	1	3
Diphtheria	0	0	0	0	0
Pertussis	7	2	1	0	10
Other Consultations	2169	4575	1221	5002	12967
Total Consultations	2785	6889	1888	5997	17559

Number of alerts & outbreaks reported and investigated with appropriate response

Sus.Diseases	2013		Current week 15, 2013		System Gen. Alerts (week 15)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD/OAD	0	0	0	0	0	2
Sus.Pertussis	24	0	7	0	7	0
Sus.Measles	67	0	14	0	14	3
AFP	3	0	0	0	0	0
Bloody Diarrhea	4	0	1	0	1	5
AVH	8	0	3	0	3	2
Sus.Dengue fever	4	0	1	0	1	0
Sus.Meningitis	5	0	1	0	1	0
Cut.Leishmaniasis	6	0	3	0	3	0
NNT	1	0	0	0	0	0
Total	122	0	30	0	30	12

Number of Alerts Received and Responded (Epiweeks 11 and 15, 2013)



Lahj Governorate

25 health facilities from 11 districts in Lahj governorate reported to eDEWS with a total of 2785 patients consultations in week 15, 2013. Total 13 alerts were reported and appropriate measures were taken in week 15, 2013. Altogether 7 alerts for Measles, 3 AVH, 1 each for pertussis, CL and BD were reported and responded.

Aden Governorate

24 health facilities from 8 districts in Aden governorate reported to eDEWS with a total of 6889 patients consultations in week 15, 2013. Total 6 alerts were reported and appropriate measures were taken in week 15, 2013. Altogether 4 alerts for Measles and 2 for Pertussis were reported and responded.

Abyan Governorate

17 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 1888 patients consultations in week 15, 2013. Total 3 alerts were reported and appropriate measures were taken in week 15, 2013. Altogether 1 alert each for Measles, Pertussis and CL was reported and responded.

Taiz Governorate

19 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 5997 patients consultations in week 15, 2013. Total 8 alerts were reported and appropriate measures were taken in week 15, 2013. Altogether 3 alerts for AVH, 2 Measles and 1 each for Meningitis, Dengue Fever and CL were reported and responded.

Alert/Outbreaks Responded in Epi-week 15, 2013

Suspected Disease	Governorate	District	Health Facilities	Actions Taken / Notes	Cases	Deaths
Measles	Taiz	Al-Shamaytain	Khalifa Hosp	An alert of suspected Measles was received from Khalifa hospital with 1 clinical cases. Field investigation with active case search carried out and a cluster of 10 houses was taken for identification of new cases and routine vaccination status. 1 more clinical case was found in the same village AlKamra, Alaziazah. Vitamin A was provided, patients isolated, 2 blood samples and 2 throat swabs were collected and sent to central lab Sana'a, both patients were immunized. Total of 10 children of less than 5 years seen in the village, 7 children were found immunized for measles doses I & II, and 3 children for measles dose I only. Information was shared with EPI team for action. Health education session conducted with the family members and community on importance of routine vaccination. Information was shared with relevant focal points.	2	0
Meningitis	Taiz	Al-Qahira	Yemeni Swedish Hosp	District coordinator contacted, information shared, samples were taken, follow up to find out the results. On follow up results were found negative for all samples collected week. Follow up for current week sample is planned.	21	0
Measles	Lahj	Tuban, Al Hawtah, Radfan, Tuban, AlMadaribah	Al-Feyoush HU. Ibn Khaldon, Radfan, Saber, AlShat, AlWaht & Jiblah HFs	Measles focal point was contacted and information was shared; Field investigations done, samples collected and sent it to sana'a for lab confirmation.	23	0
Measles	Aden	Craiter	Al-Maidan	eDEWS surveillance officer contact Dr.Wafa, cases were diagnosed as measles clinically, blood samples are collected from 2 typical cases only, samples sent to sana'a lab for confirmation. All cases were immunized for measles	7	0
Pertussis	Aden & Lahj	Craiter, AlBuriqa, Laboas, Radfan, Tuban, AlHad	Al-Maidan, AlBuriqa, Laboas, Radfan, Saber and AlHad HFs	Surveillance coordinator contacted, the cases were diagnosed clinically, treated with erythromycine, further investigations planned	9	0
Pertussis	Abyan	Khanfer	Amsura HU	Focal point was contacted, it was informed that case was diagnosed by a health personnel as pertussis clinically, case was referred to a pediatric specialist in Aden, the specialist confirmed the diagnosis and treat the child with erythromycin for 2 weeks. There is history of cough >2weeks in same elder members of family. Contact information was not available.	1	0
AVH	Taiz	Al-Qahira - Al Moudafer	Yemeni Swedish-Al Hekma & Al Tawon Hospitals	District coordinator was contacted and it was informed that 5 samples were found positive for Hepatitis A, all positive cases were sporadic as they were from different locations in Al Qahira district. Investigations underway.	44	0
Cut.Leishmaniasis	Taiz - Lahj - Abyan	Al-Qahira - Tur Albaha - Khanfer	Tur Albaha-Yemeni Swedish & Al Hasen Hospitals	Three cases reported, investigations were done by MO. Case was presenting with lesions on body. Health education was given alongwith advise to continue medicines.	1	0
Dengue	Taiz	Al-Moudafer	Al-Hekma Hosp	District coordinator was contacted, samples were collected and sent to Lab, results are awaited. Information shared with Dengue focal point.	3	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 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.