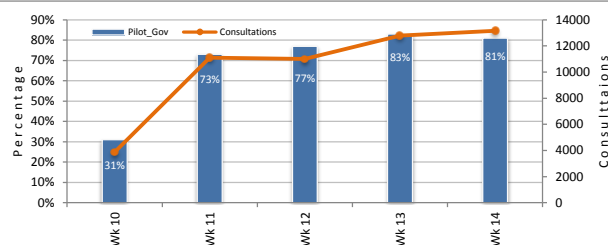


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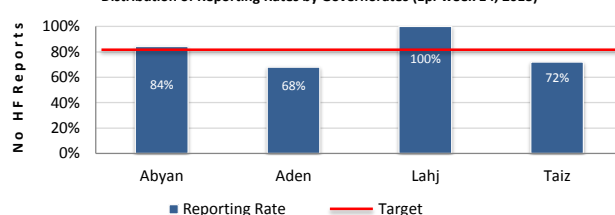
Highlights

- During week no 14, 2013; 81% (76/94) health facilities from 4 pilot governorates provided valid surveillance data.
- The total number of consultations reported during the week in pilot governorates was 13170 compared to 12806 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 39 alerts were generated by eDEWS system in week 14, 2013; Of these, 26 alerts were verified as true for further investigations with appropriate response.
- Altogether 13 alerts of Measles, 5 each for Pertussis, 3 AVH, 2 CL, and 1 each for Meningitis, Dengue and BD were received and responded. In total, 75 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 14, 2013



Distribution of Reporting Rates by Governorates (Epi-week 14, 2013)



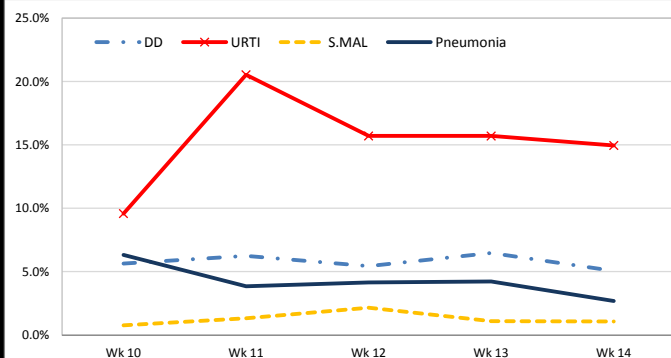
Leading Priority Diseases - Pilot Governorates (Epi-week 14, 2013)

- URTI (15%), suspected malaria (1.1%), OAD (4.7%) and Pneumonia (2.7%) remain the leading causes of morbidity representing a total of 23.5%.
- 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 5.1% and Pneumonia 2.7% of total morbidity in Pilot Governorates this week.
- All diarrheal disease comprised 2.94% and Pneumonia 1.46% of total morbidity in the <5 years age group.

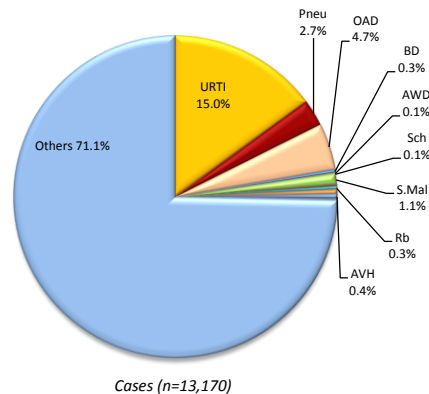
23 districts from 4 Governorates reported to eDEWS in week 14, 2013



Trends for Leading Priority Diseases in Pilot Governorates - Epiweeks 10 to 14, 2013



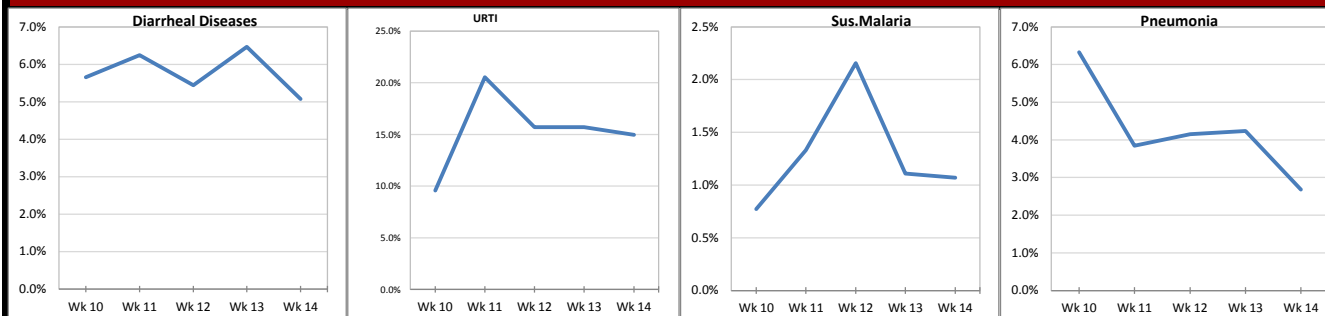
Proportional Morbidity for Leading Priority Diseases - Epiweek 14, 2013



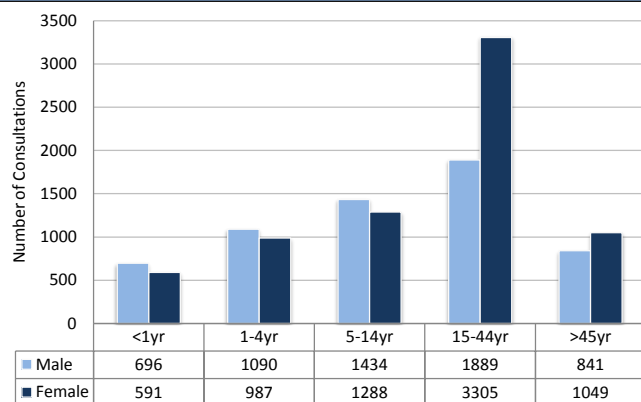
Cases (n=13,170)

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 14, 2013)



Age and Sex distribution of total consultations of leading diseases (Epi week 14, 2012)



Cumulative number of major health events reported in Epi-weeks 10 to 14, 2013 (1st March 2013 to 04th April 2013)

Diseases	No of Cases	Percentage
Upper Respiratory Infections	8352	16.0%
Diarrheal Diseases	2997	5.8%
Suspected Malaria	700	1.3%
Pneumonia	2029	3.9%
Total (All consultations)	52067	100%

Leading Diseases by Governorate, Epiweek 14

- URTI was highest in Governorate Abyan (20.5%) this week.
- Diarrheal Disease was highest in Governorate Aden (5.12%) this week.

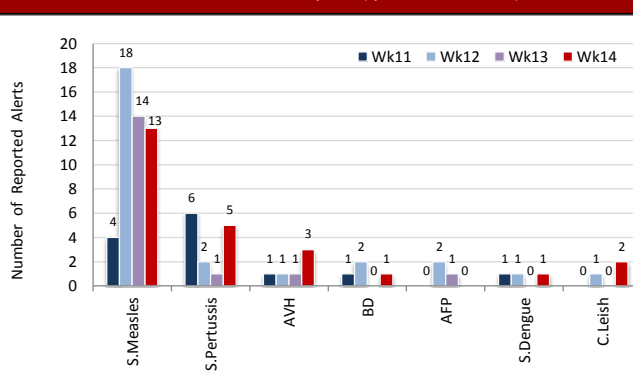
Distribution of consultations of leading diseases by Governorates, Epiweek 14

Suspected Disease	Lahj	Aden	Abyan	Taiz	Total
Upper Respiratory Infections	309	906	363	392	1970
Pneumonia	58	84	86	125	353
Other Acute Diarrhea	93	238	86	197	614
Bloody Diarrhea	3	21	5	14	43
Acute Watery Diarrhea	0	0	0	11	11
Schistosomiasis	0	0	0	7	7
Malaria	17	84	14	26	141
Meningitis	0	2	0	13	15
Dengue Fever	0	1	0	6	7
Viral Hemorrhagic Fever	0	0	0	0	0
Rabies	1	0	0	39	40
Measles	21	29	4	9	63
Acute Viral Hepatitis (A & E)	11	10	2	33	56
Neonatal Tetanus	0	0	0	0	0
Acute Flaccid Paralysis	0	0	0	0	0
Cutaneous Leishmaniasis	0	0	0	0	0
Diphtheria	2	1	1	0	4
Pertussis	0	0	2	0	2
Other Consultations	1781	3625	1208	3221	9835
Total Consultations	2297	5006	1771	4096	13170

Number of alerts & outbreaks reported and investigated with appropriate response

Diseases	2013		Current week 14, 2013		System Gen. Alerts (week 14)	
	Alerts	Outbreaks	Alerts	Outbreaks	TRUE	FALSE
AWD	0	0	0	0	0	2
Pertussis	17	0	5	0	5	0
Measles	53	0	13	0	13	3
AFP	3	0	0	0	0	0
Diphtheria	0	0	0	0	0	1
Bloody Diarrhea	4	0	1	0	1	5
AVH	6	0	3	0	3	2
Dengue fever	3	0	1	0	1	0
Meningitis	4	0	1	0	1	0
CL	3	0	2	0	2	0
NNT	1	0	0	0	0	0
Total	94	0	26	0	26	13

Number of Alerts Received and Responded (Epiweeks 11 and 14, 2013)



Lahj Governorate

25 health facilities from 5 districts in Lahj governorate reported to eDEWS with a total of 2297 patients consultations in week 14, 2013. Total 12 alerts were reported and appropriate measures were taken in week 14, 2013. Altogether 6 alerts were for Measles, 3 AVH, 1 each for pertussis, CL and BD were reported and responded.

Aden Governorate

17 health facilities from 7 districts in Aden governorate reported to eDEWS with a total of 5006 patients consultations in week 14, 2013. Total 4 alerts were reported and appropriate measures were taken in week 14, 2013. Altogether 2 alerts each for Measles and Pertussis were reported and responded.

Abyan Governorate

16 health facilities from 4 districts in Abyan governorate reported to eDEWS with a total of 1771 patients consultations in week 14, 2013. Total 3 alerts were reported and appropriate measures were taken in week 14, 2013. Altogether 2 alerts were for Measles and 1 for CL.

Taiz Governorate

18 health facilities from 7 districts in Taiz governorate reported to eDEWS with a total of 4096 patients consultations in week 14, 2013. Total 7 alerts were reported and appropriate measures were taken in week 14, 2013. Altogether 3 alerts for Measles, 2 Pertussis and 1 for each Meningitis and Dengue Fever were reported and responded.

Alert/Outbreaks Responded in Epi-week 14, 2013

Suspected Disease	Governorate	District	Location	Actions Taken / Notes	Cases	Deaths
Measles	Taiz	Salah	Salah	Suspected of case of measles was notified, a 7 year old girl from Taiz city visited HF with clinical picture of measles, she was vaccinated, No similar cases were found in the area, Blood sample was taken and sent to central lab in Sanaa.	1	0
Pertussis	Taiz	Salah	Salah	District coordinator was contacted, it was informed that 2 cases (16yrs and 7 yrs girls) from Taiz city were brought to the HU on Sunday and Monday (31/3-1/4/2013). They had complains of fever and cough followed by inspiratory whooping for 14 days, they were vaccinated, no similar cases in same house or neighbourhood or schools were found, Importance of Immediated alert and response was discussed with health staff.	2	0
Suspected Dengue	Taiz	Al-Modaffer	Al-Modaffer	District coordinator was contacted, information shared. Samples collected and sent for lab confirmation, results are awaited.	5	0
AVH	Taiz	Al-Modaffer	Al-Modaffer	District coordinator was contacted, it was informed that some patients visited OPD with complain of abd. Pain with melena (blood in stool) and some with mild degree of splenomegaly, samples were collected and sent to lab, 3 samples were found negative and results of other samples are awaited. Follow up is planned.	22	0
Measles	Taiz	Salah	Salah	District coordinator was contacted, 3 years baby girl from Taiz, vaccinated, brought to hospital C/O fever and rash for 3 days, no contact information available for field investigations and response, importance of recording detailed contact information for such cases was discussed with HF staff	1	0
AWD	Taiz	Al-Qahira	Al-Qahira	District coordinator contacted, 8 years baby boy from Saber brought to hospital C/O diarrhea and since 2 days, no signs of dehydration were found, pt was given proper treatment, improved and discharged after 2 days.	1	0
Pertussis	Taiz	Al-Qahira	Al-Qahira	District coordinator contacted, it was informed that 8 months baby boy from Saber (not vaccinated) brought to hospital C/O fever and cough since 10 days, contact information wasn't available, importance of contact information was discussed again.	1	0
Meningitis	Taiz	Al-Qahira	Al-Qahira	District coordinator was contacted, information was shared with focal point for meningitis, samples were collected and sent to the lab, results are awaited.	12	0
Measles	Taiz	Al-Qahira	Al-Qahira	District coordinator was contacted, information was shared, samples were collected and sent to central lab in Sanaa	6	0
AWD	Taiz	Khader	Khader	District coordinator was contacted, Alert was false, it was informed that patient was brought to hospital with diarrhea with no signs of dehydration, they received antibiotic and I.V, improved and discharged, case definition was discussed to avoid false alerts in future	6	0
BD	Taiz	Khader	Khader	District coordinator was contacted, after investigation it was found that it was not true alert as pateints were from different locations.	3	0
Measles	Aden	Craiter	Craiter	eDEWS officer contact focal point, blood samples and swab are collected and sent from 3 cases which fulfill the case definition of measles. NO samples are collected from the other cases.	6	0
Pertussis	Aden	Craiter	Craiter	A pediatric specialist diagnosed case clinically following case definition. A 6 years old male child from Alkhusaf was vaccinated and treated with erythroycin. The adress of patient was not recorded. Importance of recording contact information was shared.	1	0
Measles	Abyan	Lowder	Abyan	eDEWS surveillance officer contact Dr. Wadah (focal point), and he informed me that 2 cases (5 year, Male, vaccinated and 4 year old, Female not vaccinated both from Alhamra'a) are more likely to be Rubella and after follow up they improved within 5 days. The third case, 7 year old Male, vaccinated, from Alhamra'a diagnosed by case definition. NO blood samples is collected. eDEWS officer informed the focal point to contact with gov. surveillance coordinator to have sample collection.	3	0
C. Leishmaniasis	Abyan	Khanfer	Abyan	The male patient visited HF with an induration in the forearm, he was a soldier came from a village in the north, health staff was requested for provision of contact information to follow the case but it was not available. Importance of recording contact information was shared.	1	0
Measles	Lahj	Radfan	Radfan	Lahj Surveillance Coordinator confirmed cases. Samples were not collected as specimen containers were not available. Case has been investigated.	1	0
Measles	Lahj	Al-Qabbaytah	Al-Raboa	Measles focal point was contacted and information was shared; Field investigation done, samples were collected and sent to sana'a for lab confirmation.	10	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.