

Weekly Monitor MERS-CoV

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Current Event

Challenges in MERS-CoV Surveillance in Saudi Arabia

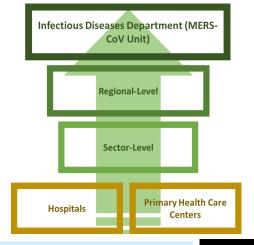
MOH witnessed improvement in timeliness, completeness of epidemiological and laboratory surveillance of MERS-CoV. However, certain challenges remain and need to be addressed by all possible means.

Editorial Notes

Since its emergence, MOH has used four different case definitions for MERS-CoV in the periods of: October 2012 - May 2013, May 2013 -May 2014, May 2014 - June 2015; and from June 2015 to-date. The updated case-definitions were distributed to all health facilities in Saudi Arabia, together with some scientific material about the disease. MOH developed special data collection forms for notification, case-investigation, contact tracing and follow-up. All suspected and laboratory-confirmed cases of MERS-CoV should be reported to the respec- pitals; especially in major hospitals in tive Public Health Directorate within the Kingdom. In addition to triaging the region through HESN web-based and improved surveillance activities, surveillance system.

The task of Public Health Teams (PHT) in each health region in Saudi Arabia gather information on new cases, follow up the cases and update the information on a daily basis. The PHT visits the houses of the cases to identify the household contacts, ascertain exposure to animals e.g. camels, and take appropriate samples from symptomatic contacts. During 2015, Challenges facing MERS-CoV sur-PHT made 458 field visits and have veillance include shortage in wellidentified more than 4000 household trained surveillance officers in some contacts. Exposed household contacts regions, especially during the outare followed up daily for 14 consecu- breaks, inadequate resources, work tive days.

Mild symptoms make it difficult to identify patients in the early stages of MERS infection, health care workers have unknowingly exposed themselves to the infection while treating MERS patients and many major, but limited, outbreaks have been reported at hosReporting system of MERS-CoV



Means to strengthen MERS-CoV Surveillance System

MERS-COV MERS-COV MERS-COV Surveillance Surveillance Surveillance Influenza-Like-Illnesses MERS-COV MERS-COV MERS-COV (ILI) surveillance. Surveillance Surveillance Surveillar MERS-CoV MERS-Co Surveillance Surveilla Severe Acute Respiratory e Surveilla MERS-COV MERS-C Infections (SARI) in Surveillance Surveilla selected hospitals. e Surveilla MERS-Co Surveillance Surveillance Surveilla Functional National MERS-COV MERS-COV MERS-CO Influenza Center (NIC) Surveillance Surveillance Surveilla in KSA. MERS-COV MERS-COV MERS-CO ≺ Surveillance Surveillance Surveillance Surveillance Surveilla "C-COV MERS-COV MERS-COV MERS-COV MERS-COV

Cases of MERS-CoV: International Week (IW) No. 53: 28 Dec 2015-3 Jan 2016

Total	1
Symptomatic (S)	1
Asymptomatic (AS)	0
Healthcare worker (S)	0
Healthcare Worker (AS)	0

HCWs particularly those working at emergency departments are continuously reminded to add droplet precautions to their standard infection control procedures. According to MOH guidelines, all exposed HCWs to a laboratory-confirmed MERS-CoV should be screened. Household contacts are screened for MERS-CoV only if they are symptomatic.

overload and lack of incentives or overtime payments. The coordination between the surveillance activities in MOH and Ministry of Agriculture is still not fully operational.

HCWs exposed to needle-stick injuries have to complete a certain form detailing their exposure and actions taken. Probably MOH need to develop a similar system for HCWs exposed to MERS-CoV patients.

Recent Publications:

Sabir JS, Lam TT, Ahmed MM, Li L, Shen Y, et al. Co-circulation of three camel coronavirus species and recombination of MERS-CoVs in Saudi Arabia. Science 2016 Jan 1;351(6268):81-4. doi:10.1126/science.aac8608. Epub 2015 Dec 17.

Cho SI. A New Measure for Assessing the Public Health Response to a Middle 2015. Nov;48(6):277-9. doi: 10.3961/jpmph.15.069. Epub 2015 Nov 30

Region	Case	Primary	Secondary	U.C.
Riyadh	294	102	184	8
Al-Ahasa	56	11	41	4
Eastern Region	21	10	11	0
Jeddah	18	10	7	1
Qassim	18	11	7	0
Najran	15	10	5	0
Taif	11	8	3	0
Madinah	7	1	6	0
Asir	4	2	2	0
Tabuk	4	4	0	0
Makkah	3	3	0	0
Hail	2	1	1	0
Al-Joaf	2	2	0	0
Jazan	1	1	0	0
Northern Borders	1	1	0	0
Qunfotha	1	1	0	0
Al-Baha	0	0	0	0
Bisha	0	0	0	0
Hafr Al-Batin	0	0	0	0
Qurayyat	0	0	0	0
Total	458	177	268	13

Case: Confirmed Symptomatic. U.C.: Unclassified cases *Period: Form 29 Dec 2014 to 3 Jan 2016

