

Current Event

MERS-CoV in KSA

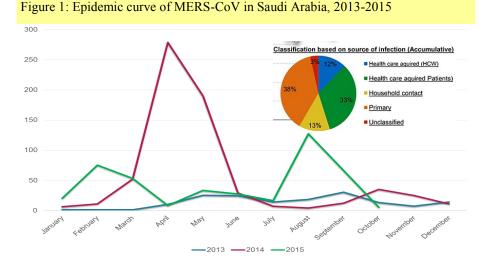
More than three years passed since Middle East Respiratory Syndrome due to coronavirus (MERS-CoV) has been identified in Saudi Arabia. Yet, it continues to be a national and international concern.

Editorial Notes

The first case of MERS-CoV infection was identified in 2012 in the western region in Saudi Arabia. Retrospective studies identified an outbreak involving 13 patients in April, 2012, in Zarqa, Jordan. Since then, cases have been identified across the Arabian peninsula, in Asia, Europe, Africa, and the USA. MERS-CoV marks the second known zoonotic introduction of a highly pathogenic coronavirus; the first zoonotic introduction of a coronavirus into the human population occurred with the severe acute respiratory syndrome (SARS) in 2003.

As of October 27th 2015 the global number of reported cases reached 1599, including 574 deaths (Case-Fatality Rate [CFR%]=35.8%). In Saudi Arabia the total number of reported cases reached 1272 (79.5% of the global number) with MERS-CoV were detected not only a CFR% of 42.5%. As a national re- during this season, but also since sponse to the emerging outbreak of 2012. MERS-CoV, Saudi Arabia created a national body, the Command and Control Center (CCC) to ensure appropriate and expedient response to the outbreak. The CCC holds three meetings weekly to monitor all activities related to MERS-CoV; some key stakeholders participate in the development of interventions.

About half of the confirmed cases (51%) were community acquired (38% were primary cases and 13% were secondary cases that occurred within households). About 45% of the cases occurred within health care facilities, of which approximately one third occurred among health care workers (HCWs), whereas 3% of the cases remain unclassified. Figure 1 shows the epidemic curve of MERS-CoV over the last three years (2013-



Cases of MERS-CoV: International Week (IW): 19-25 Oct 15:

Total cases	9
Symptomatic cases	8
Asymptomatic cases	1
Healthcare worker	1

The last pilgrimage to Makkah (Hajj) that ended end of September 2015 has been attended by about 2 million people from all over the world. It is worth mentioning that no cases of

MERS-CoV Case Definition*:

A confirmed case is a suspected case with laboratory confirmation of MERS-CoV infection. Where suspected cases are: defined as case with the following presentation:

Adults (> 14 years):

- Acute respiratory illness with clinical and/ or radiological, evidence of pneumonia or Acute Respiratory Distress Syndrome.
- Hospitalized patient with healthcare II. associated pneumonia based on clinical and radiological evidence.
- III. Upper or lower respiratory illness within 2 weeks after exposure to a confirmed or probable case of MERS-CoV infection
- IV. Unexplained acute febrile (≥38°C) illness, AND body aches, headache, diarrhea, or nausea/vomiting, with or without respiratory symptoms, AND leucopenia

* Refer to CCC guidelines June 2015

Recent publication:

Muth D, Corman VM, Meyer B, Assiri A, Al-Masri M, Farah M, Steinhagen K, Lattwein E, Al-Tawfiq JA, Albarrak A, . Infectious Middle East Respiratory Syndrome Coronavirus Excretion and Serotype Variability Based on Live Virus Isolates from Patients in Saudi

MERS-CoV in KSA 2015*

Region	Case	Primary	Secondary	U.C.
Riyadh	287	98	180	9
Al-Ahassa	52	11	37	4
Eastern Region	21	10	11	0
Jeddah	17	9	7	1
Qassim	15	9	6	0
Najran	14	9	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	442	170	258	14

Case: Confirmed Symptomatic. U.C. : Unclassified cases *Period: Form 29 Dec 2014 to 25 Oct. 2015

مـــركز القيادة و الــتدـــكم Command & Control Center

