

Bibliography of literature-derived MERS occurrences

Note: NID is the unique identifier for the [Global Health Data Exchanged \(GHDx\)](#) catalog record representing each publication from which data were extracted. The GHDx can be searched by NID to locate the corresponding record.

NID	Geography	Dataset URL	Suggested citation
364643	Tunisia		Abroug F, Slim A, Ouanes-Besbes L, Hadj Kacem MA, Dachraoui F, Ouanes I, Lu X, Tao Y, Paden C, Caidi H, Miao C, Al-Hajri MM, Zorruga M, Ghaouar W, BenSalah A, Gerber SI, World Health Organization Global Outbreak Alert and Response Network Middle East Respiratory Syndrome Coronavirus International Investigation Team. Family cluster of Middle East respiratory syndrome coronavirus infections, Tunisia, 2013. <i>Emerg Infect Dis.</i> 2014; 20(9): 1527-30.
365053	Saudi Arabia		Al Ghamdi M, Alghamdi KM, Ghandoorra Y, Alzahrani A, Salah F, Alsulami A, Bawayan MF, Vaidya D, Perl TM, Sood G. Treatment outcomes for patients with Middle Eastern Respiratory Syndrome Coronavirus (MERS CoV) infection at a coronavirus referral center in the Kingdom of Saudi Arabia. <i>BMC Infect Dis.</i> 2016; 16: 174.
364310	Oman		Al Hammadi ZM, Chu DK, Eltahir YM, Al Hosani F, Al Mulla M, Tarnini W, Hall AJ, Perera RA, Abdelkhalek MM, Peiris JS, Al Muhairi SS, Poon LL. Asymptomatic MERS-CoV Infection in Humans Possibly Linked to Infected Dromedaries Imported from Oman to United Arab Emirates, May 2015. <i>Emerg Infect Dis.</i> 2015; 21(12): 2197-200.
365056	United Arab Emirates		Al Hosani FI, Pringle K, Al Mulla M, Kim L, Pham H, Alami NN, Khudhair A, Hall AJ, Aden B, El Saleh F, Al Dhaheri W, Al Bandar Z, Bunga S, Abou Elkheir K, Tao Y, Hunter JC, Nguyen D, Turner A, Pradeep K, Sasse J, Weber S, Tong S, Whitaker BL, Haynes LM, Curns A, Gerber SI. Response to Emergence of Middle East Respiratory Syndrome Coronavirus, Abu Dhabi, United Arab Emirates, 2013-2014. <i>Emerg Infect Dis.</i> 2016; 22(7): 1162-8.
412592	Iraq		Al Salihi SF, Alrodhan MA. Phylogenetic Analysis of MERSCoV in Human and Camels in Iraq. <i>International Journal of Pharmaceutical Research Allied Sciences.</i> 2017; 6(1): 1209.
364922	Saudi Arabia		Alagaili AN, Briese T, Mishra N, Kapoor V, Sameroff SC, Burbelo PD, de Wit E, Munster VJ, Hensley LE, Zalmout IS, Kapoor A, Epstein JH, Karesh WB, Daszak P, Mohammed OB, Lipkin WI. Middle East respiratory syndrome coronavirus infection in dromedary camels in Saudi Arabia. <i>MBio.</i> 2014; 5(2): e00884-14.
365039	Saudi Arabia		Al-Dorzi HM, Aldawood AS, Khan R, Baharoon S, Alchin JD, Matroud AA, Al Johany SM, Balkhy HH, Arabi YM. The critical care response to a hospital outbreak of Middle East respiratory syndrome coronavirus (MERS-CoV) infection: an observational study. <i>Ann Intensive Care.</i> 2016; 6(1): 101.
365157	Saudi Arabia		Aleanizy FS, Mohamed N, Alqahtani FY, El Hadi Mohamed RA. Outbreak of Middle East respiratory syndrome coronavirus in Saudi Arabia: a retrospective study. <i>BMC Infect Dis.</i> 2017; 17(1): 23.
364789	Saudi Arabia		Alenazi TH, Al Arbash H, El-Saed A, Alshamrani MM, Baffoe-Bonnie H, Arabi YM, Al Johani SM, Hijazi R, Alothman A, Balkhy HH. Identified Transmission Dynamics of Middle East Respiratory Syndrome Coronavirus Infection During an Outbreak: Implications of an Overcrowded Emergency Department. <i>Clin Infect Dis.</i> 2017; 65(4): 675-679.
364905	United Arab Emirates		Alexandersen S, Kobinger GP, Soule G, Wernery U. Middle East respiratory syndrome coronavirus antibody reactors among camels in Dubai, United Arab Emirates, in 2005. <i>Transbound Emerg Dis.</i> 2014; 61(2): 105-8.

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365058	Philippines		Alfaraj SH, Al-Tawfiq JA, Altuwaijri TA, Alanazi M, Alzahrani N, Memish ZA. Middle East respiratory syndrome coronavirus transmission among health care workers: Implication for infection control. <i>Am J Infect Control</i> . 2018; 46(2): 165-168.
365186	Saudi Arabia		Alfaraj SH, Al-Tawfiq JA, Altuwaijri TA, Memish ZA. Middle East Respiratory Syndrome Coronavirus and Pulmonary Tuberculosis Coinfection: Implications for Infection Control. <i>Intervirolgy</i> . 2017; 60(1–2): 53–5.
364275	Saudi Arabia		Al-Gethamy M, Corman VM, Hussain R, Al-Tawfiq JA, Drosten C, Memish ZA. A case of long-term excretion and subclinical infection with Middle East respiratory syndrome coronavirus in a healthcare worker. <i>Clin Infect Dis</i> . 2015; 60(6): 973-4.
364874	Saudi Arabia		AlGhamdi M, Mushtaq F, Awn N, Shalhoub S. MERS CoV infection in two renal transplant recipients: case report. <i>Am J Transplant</i> . 2015; 15(4): 1101-4.
364640	Saudi Arabia		Alhakeem RF, Midgley CM, Assiri AM, Alessa M, Al Hawaj H, Saeed AB, Almasri MM, Lu X, Abedi GR, Abdalla O, Mohammed M, Algarni HS, Al-Abdely HM, Alsharef AA, Nooh R, Erdman DD, Gerber SI, Watson JT. Exposures among MERS Case-Patients, Saudi Arabia, January-February 2016. <i>Emerg Infect Dis</i> . 2016; 22(11): 2020-2022.
364316	Saudi Arabia		Al-Hameed F, Wahla AS, Siddiqui S, Ghabashi A, Al-Shomrani M, Al-Thaqafi A, Tashkandi Y. Characteristics and Outcomes of Middle East Respiratory Syndrome Coronavirus Patients Admitted to an Intensive Care Unit in Jeddah, Saudi Arabia. <i>J Intensive Care Med</i> . 2016; 31(5): 344-8.
365027	Saudi Arabia		Al-Hameed FM. Spontaneous intracranial hemorrhage in a patient with Middle East respiratory syndrome corona virus. <i>Saudi Med J</i> . 2017; 38(2): 196-200.
365087	Saudi Arabia		Alhethel A, Altalhi H, Albarrag A, Shakoor Z, Mohamed D, El-Hazmi M, Somily A, Barry M, Bakhrebah M, Nassar M. Assessing the Detection of Middle East Respiratory Syndrome Coronavirus IgG in Suspected and Proven Cases of Middle East Respiratory Syndrome Coronavirus Infection. <i>Viral Immunol</i> . 2017; 30(9): 649-653.
364296	Saudi Arabia		Alhogbani T. Acute myocarditis associated with novel Middle east respiratory syndrome coronavirus. <i>Ann Saudi Med</i> . 2016; 36(1): 78-80.
364349	Egypt		Ali M, El-Shesheny R, Kandeil A, Shehata M, Elsokary B, Gomaa M, Hassan N, El Sayed A, El-Taweel A, Sobhy H, Fasina FO, Dauphin G, El Masry I, Wolde AW, Daszak P, Miller M, VonDobschuetz S, Morzaria S, Lubroth J, Makonnen YJ. Cross-sectional surveillance of Middle East respiratory syndrome coronavirus (MERS-CoV) in dromedary camels and other mammals in Egypt, August 2015 to January 2016. <i>Euro Surveill</i> . 2017; 22(11).
365037	Egypt		Ali MA, Shehata MM, Gomaa MR, Kandeil A, El-Shesheny R, Kayed AS, El-Taweel AN, Atea M, Hassan N, Bagato O, Moatasim Y, Mahmoud SH, Kutkat O, Maatouq AM, Osman A, McKenzie PP, Webby RJ, Kayali G. Systematic, active surveillance for Middle East respiratory syndrome coronavirus in camels in Egypt. <i>Emerg Microbes Infect</i> . 2017; 6(1): e1.
364965	Saudi Arabia		Almekhlafi GA, Albarrak MM, Mandourah Y, Hassan S, Alwan A, Abudayah A, Altayyar S, Mustafa M, Aldaghestani T, Alghamedi A, Talag A, Malik MK, Omrani AS, Sakr Y. Presentation and outcome of Middle East respiratory syndrome in Saudi intensive care unit patients. <i>Crit Care</i> . 2016; 20(1): 123.
364954	Saudi Arabia		Alraddadi B, Bawareth N, Omar H, Alsalmi H, Alshukairi A, Qushmaq I, Feteih M, Qutob M, Wali G, Khalid I. Patient characteristics infected with Middle East respiratory syndrome coronavirus infection in a tertiary hospital. <i>Ann Thorac Med</i> . 2016; 11(2): 128-31.

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365018	Saudi Arabia		Alraddadi BM, Watson JT, Almarashi A, Abedi GR, Turkistani A, Sadran M, Housa A, Almazroa MA, Alraihan N, Banjar A, Albalawi E, Alhindi H, Choudhry AJ, Meiman JG, Paczkowski M, Curns A, Mounts A, Feikin DR, Marano N, Swerdlow DL, Gerber SI, Hajjeh R, Madani TA. Risk Factors for Primary Middle East Respiratory Syndrome Coronavirus Illness in Humans, Saudi Arabia, 2014. <i>Emerg Infect Dis.</i> 2016; 22(1): 49-55.
365118	Saudi Arabia		Alrashid M, Taleb AA, Hajeer A, Arabi Y. Prevalence of antibodies against the Middle East Respiratory Syndrome coronavirus, influenza A and B viruses among blood donors, Saudi Arabia. <i>Ann Thorac Med.</i> 2017; 12(3): 217-218.
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365095	Saudi Arabia		Al-Tawfiq JA, Alfaraj SH, Altuwaijri TA, Memish ZA. A cohort-study of patients suspected for MERS-CoV in a referral hospital in Saudi Arabia. <i>J Infect.</i> 2017; 75(4): 378-379.
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365060	Saudi Arabia		Al-Tawfiq JA, Hinedi K. The calm before the storm: clinical observations of Middle East respiratory syndrome (MERS) patients. <i>J Chemother.</i> 2018; 30(3): 179-182.
365166	North Africa and Middle East		Al-Tawfiq JA, Memish ZA. Middle East respiratory syndrome coronavirus: epidemiology and disease control measures. <i>Infect Drug Resist.</i> 2014; 7: 281-7.
365160	Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates		Aly M, Elrobh M, Alzayer M, Aljuhani S, Balkhy H. Occurrence of the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) across the Gulf Corporation Council countries: Four years update. <i>PLoS One.</i> 2017; 12(10): e0183850.
364646	Uganda		Anthony SJ, Gilardi K, Menachery VD, Goldstein T, Ssebide B, Mbabazi R, Navarrete-Macias I, Liang E, Wells H, Hicks A, Petrosov A, Byarugaba DK, Debbink K, Dinnon KH, Scobey T, Randell SH, Yount BL, Cranfield M, Johnson CK, Baric RS, Lipkin WI, Mazet JA. Further Evidence for Bats as the Evolutionary Source of Middle East Respiratory Syndrome Coronavirus. <i>MBio.</i> 2017; 8(2).

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364324	Saudi Arabia		Arabi YM, Arifi AA, Balkhy HH, Najm H, Aldawood AS, Ghabashi A, Hawa H, Alothman A, Khaldi A, Al Raiy B. Clinical course and outcomes of critically ill patients with Middle East respiratory syndrome coronavirus infection. <i>Ann Intern Med.</i> 2014; 160(6): 389-97.
364926	Saudi Arabia		Arwady MA, Alraddadi B, Basler C, Azhar EI, Abuelzein E, Sindy AI, Sadiq BM, Althaqafi AO, Shabouni O, Banjar A, Haynes LM, Gerber SI, Feikin DR, Madani TA. Middle East Respiratory Syndrome Coronavirus Transmission in Extended Family, Saudi Arabia, 2014. <i>Emerg Infect Dis.</i> 2016; 22(8): 1395-402.
364919	Saudi Arabia		Assiri A, Abedi GR, Al Masri M, Bin Saeed A, Gerber SI, Watson JT. Middle East Respiratory Syndrome Coronavirus Infection During Pregnancy: A Report of 5 Cases From Saudi Arabia. <i>Clin Infect Dis.</i> 2016; 63(7): 951-3.
364844	Saudi Arabia		Assiri A, Abedi GR, Bin Saeed AA, Abdalla MA, al-Masry M, Choudhry AJ, Lu X, Erdman DD, Tatti K, Binder AM, Rudd J, Tokars J, Miao C, Alarbash H, Nooh R, Pallansch M, Gerber SI, Watson JT. Multifacility Outbreak of Middle East Respiratory Syndrome in Taif, Saudi Arabia. <i>Emerg Infect Dis.</i> 2016; 22(1): 32-40.
364636	Saudi Arabia		Assiri A, Al-Tawfiq JA, Al-Rabeeah AA, Al-Rabiah FA, Al-Hajjar S, Al-Barrak A, Flemban H, Al-Nassir WN, Balkhy HH, Al-Hakeem RF, Makhdoom HQ, Zumla AI, Memish ZA. Epidemiological, demographic, and clinical characteristics of 47 cases of Middle East respiratory syndrome coronavirus disease from Saudi Arabia: a descriptive study. <i>Lancet Infect Dis.</i> 2013; 13(9): 752-61.
364714	Saudi Arabia		Assiri A, McGeer A, Perl TM, Price CS, Al Rabeeah AA, Cummings DA, Alabdullatif ZN, Assad M, Almulhim A, Makhdoom H, Madani H, Alhakeem R, Al-Tawfiq JA, Cotten M, Watson SJ, Kellam P, Zumla AI, Memish ZA, KSA MERS-CoV Investigation Team. Hospital outbreak of Middle East respiratory syndrome coronavirus. <i>N Engl J Med.</i> 2013; 369(5): 407-16.
364637	Saudi Arabia		Assiri AM, Midgley CM, Abedi GR, Bin Saeed A, Almasri MM, Lu X, Al-Abdely HM, Abdalla O, Mohammed M, Algarni HS, Alhakeem RF, Sakthivel SK, Nooh R, Alshayab Z, Alessa M, Srinivasamoorthy G, AlQahtani SY, Kheyami A, HajOmar WH, Banaser TM, Esmaeel A, Hall AJ, Curns AT, Tamin A, Alsharef AA, Erdman D, Watson JT, Gerber SI. Epidemiology of a Novel Recombinant Middle East Respiratory Syndrome Coronavirus in Humans in Saudi Arabia. <i>J Infect Dis.</i> 2016; 214(5): 712-21.
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365035	South Korea		Bae JM. Surveillance operation for the 141st confirmed case of Middle East Respiratory Syndrome coronavirus in response to the patient's prior travel to Jeju Island. <i>Epidemiol Health.</i> 2015; 37: e2015035.
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365195	United States	https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6319a4.htm	Bialek SR, Allen D, Alvarado-Ramy F, Arthur R, Balajee A, Bell D, Best S, Blackmore C, Breakwell L, Cannons A, Brown C, Cetron M, Chea N, Chommanard C, Cohen N, Conover C, Crespo A, Creviston J, Curns AT, Dahl R, Dearth S, DeMaria A, Echols F, Erdman DD, Feikin D, Frias M, Gerber SI, Gulati R, Hale C, Haynes LM, Heberlein-Larson L, Holton K, Ijaz K, Kapoor M, Kohl K, Kuhar DT, Kumar AM, Kundich M, Lippold S, Liu L, Lovchik JC, Madoff L, Martell S, Matthews S, Moore J, Murray LR, Onofrey S, Pallansch MA, Pesik N, Pham H, Pillai S, Pontones P, Pringle K, Pritchard S, Rasmussen S, Richards S, Sandoval M, Schneider E, Schuchat A, Sheedy K, Sherin K, Swerdlow DL, Tappero JW, Vernon MO, Watkins S, Watson J. First Confirmed Cases of Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Infection in the United States, Updated Information on the Epidemiology of MERS-CoV Infection, and Guidance for the Public, Clinicians, and Public Health Authorities May 2014. MMWR Morb Mortal Wkly Rep. 2014; 63(19): 431-436.
365164	North Africa and Middle East		Buliva E, Elhakim M, Tran Minh NN, Elkholy A, Mala P, Abubakar A, Malik SMMR. Emerging and Reemerging Diseases in the World Health Organization (WHO) Eastern Mediterranean Region-Progress, Challenges, and WHO Initiatives. Front Public Health. 2017; 5: 276.
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364875	South Korea		Chang K, Ki M, Lee EG, Lee SY, Yoo B, Choi JH. MERS epidemiological investigation to detect potential mode of transmission in the 178th MERS confirmed case in Pyeongtaek, Korea. Epidemiol Health. 2015; 37: e2015036.
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364886	South Korea		Cho SY, Kang JM, Ha YE, Park GE, Lee JY, Ko JH, Lee JY, Kim JM, Kang CI, Jo IJ, Ryu JG, Choi JR, Kim S, Huh HJ, Ki CS, Kang ES, Peck KR, Dhong HJ, Song JH, Chung DR, Kim YJ. MERS-CoV outbreak following a single patient exposure in an emergency room in South Korea: an epidemiological outbreak study. Lancet. 2016; 388(10048): 994-1001.
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364634	South Korea		Choi JH, Yoo B, Lee SY, Lee EG, Ki M, Lee W, Jung JR, Chang K. Epidemiological investigation of the 119th confirmed Middle East Respiratory Syndrome coronavirus case with an indefinite mode of transmission during the Pyeongtaek outbreak in Korea. Epidemiol Health. 2015.
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364892	Nigeria		Chu DK, Oladipo JO, Perera RA, Kuranga SA, Chan SM, Poon LL, Peiris M. Middle East respiratory syndrome coronavirus (MERS-CoV) in dromedary camels in Nigeria, 2015. Euro Surveill. 2015; 20(49).

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364839	Saudi Arabia		Cotten M, Watson SJ, Kellam P, Al-Rabeeah AA, Makhdoom HQ, Assiri A, Al-Tawfiq JA, Alhakeem RF, Madani H, AlRabiah FA, Al Hajjar S, Al-nassir WN, Albarrak A, Flemban H, Balkhy HH, Alsubaie S, Palser AL, Gall A, Bashford-Rogers R, Rambaut A, Zumla AI, Memish ZA. Transmission and evolution of the Middle East respiratory syndrome coronavirus in Saudi Arabia: a descriptive genomic study. <i>Lancet.</i> 2013; 382(9909): 1993-2002.
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365025	Kenya		Deem SL, Fèvre EM, Kinnaird M, Browne AS, Muloi D, Godeke GJ, Koopmans M, Reusken CB. Serological Evidence of MERS-CoV Antibodies in Dromedary Camels (<i>Camelus dromedaries</i>) in Laikipia County, Kenya. <i>PLoS One.</i> 2015; 10(10): e0140125.
364842	Saudi Arabia		Drosten C, Muth D, Corman VM, Hussain R, Al Masri M, HajOmar W, Landt O, Assiri A, Eckerle I, Al Shangiti A, Al-Tawfiq JA, Albarrak A, Zumla A, Rambaut A, Memish ZA. An observational, laboratory-based study of outbreaks of middle East respiratory syndrome coronavirus in Jeddah and Riyadh, kingdom of Saudi Arabia, 2014. <i>Clin Infect Dis.</i> 2015; 60(3): 369-77.
365170	Germany		Drosten C, Seilmaier M, Corman VM, Hartmann W, Scheible G, Sack S, Guggemos W, Kallies R, Muth D, Junglen S, Müller MA, Haas W, Guberina H, Röhnisch T, Schmid-Wendtner M, Aldabbagh S, Dittmer U, Gold H, Graf P, Bonin F, Rambaut A, Wendtner C-M. Clinical features and virological analysis of a case of Middle East respiratory syndrome coronavirus infection. <i>Lancet Infect Dis.</i> 2013; 13(9): 745-51.
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365155	Saudi Arabia		El Bushra HE, Al Arbash HA, Mohammed M, Abdalla O, Abdallah MN, Al-Mayahi ZK, Assiri AM, BinSaeed AA. Outcome of strict implementation of infection prevention control measures during an outbreak of Middle East respiratory syndrome. <i>Am J Infect Control</i> . 2017; 45(5): 502-507.
364937	Saudi Arabia		Fagbo SF, Skakni L, Chu DK, Garbati MA, Joseph M, Peiris M, Hakawi AM. Molecular Epidemiology of Hospital Outbreak of Middle East Respiratory Syndrome, Riyadh, Saudi Arabia, 2014. <i>Emerg Infect Dis</i> . 2015; 21(11): 1981-8.
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